PowerBook Fax/Data Modem: Disabling MNP Connections (7/94)

Article Created: 23 April 1992
Article Reviewed/Updated: 21 July 1994

TOPIC ---

Which AT command switches MNP 5 on and off in the PowerBook Fax/Data Modem?

DISCUSSION --

There are several ways to disable MNP connections: Through '&Q', '%C' commands
and through S register settings:

From the Macintosh PowerBook Fax/Data Modem User's Guide, page 102

&Qn Connection Mode, where if n equals (default is 5):

```
  0        Sets asynchronous mode with no error correction protocol.
  1-4      Returns ERROR.
  5        Error control mode. Instructs the modem to make a connection
           using the V.42/MNP. If remote modem does not offer V.42/MNP,
           the modem falls back to standard Asynchronous mode.
```

From the Macintosh PowerBook Fax/Data Modem Developer's Guide, page 55

%Cn MNP 5 enable - Enables and disables MNP class 5 data compression during
Reliable Mode connections. For use with MNP class 5, \L0 is mandatory, \J0 is
recommended.

```
  %C0  Disables data compression. AT%C0 sets S46 to 136.
  %C1  Enables data compression (default). AT%C1 sets s46 to 138.
```

From the Macintosh PowerBook Fax/Data Modem Developer's Guide, page 56

• \Jn BPS adjusts to DTE speed - After connecting, when in Direct Mode,
  the PowerBook and the Fax/Data Modem always adjust their data rate to the
  one used on the communication channel (between the Fax/Data Modem and the
  remote modem).

  When one of the three MNP modes is set, the PowerBook normally keeps the
  same data rate as used in the Command State and the modem, with the help
  of flow control, adjusts its speed and buffers data between the
  communication channel and the PowerBook. This can be modified with the \J

command, which can disable that buffering possibility within an MNP mode.

    \J0   The modem adjusts its speed to the PowerBook; buffering is
          enabled (default).
    \J1   The modem and the PowerBook must adjust the speed to that of the
          communication channel without buffering, as in Direct Mode.

• \L Service type - This command controls the MNP service type setting.

    \L0   Stream (default).
    \L1   Block; returns ERROR.

From the Macintosh PowerBook Fax/Data Modem Developer's Guide, page 75

• S46: Error protocol selection V.42 and V.42bis (default is 138)

    0   Either LAP-M (V.42) or LAP-B (MNP).
    1   LAP-B only.
    2   LAP-M with adaptive data compression or LAP-B with adaptive
          compression.
    3   LAP-B with adaptive data compression.
    136   LAP-M (V.42) only.
    138   LAP-M with adaptive compression (V.42bis).

  All other codes return ERROR.

• S48: Feature negotiation action V.42 and V.42bis (default is 7)

    0   Negotiation disabled in V.42 or V.42 bis modes only depending on
          S46.
    7   Negotiation enabled. Start with V.42 or V.42bis and fall back to
          MNP if required.
    128   Negotiation disabled. Force to MNP mode only.

  All other codes return ERROR.

Article Change History:
21 Jul 1994 - Changed access privileges to everyone.

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Keywords: knts, supt

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19960215 11:05:19.00

Tech Info Library Article Number: 10125