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+-----------------------------------------------------------------+        1
|                8802-3/802.3 REVISION REQUEST 1122         |        2
+-----------------================================================+        3
                                                                           4
DATE:                 17th Dec, 2003                                       5
NAME:                 David James                                          6
COMPANY/AFFILIATION: JGG                                                   7
E-MAIL:               dvj@alum.mit.edu                                     8
                                                                           9
REQUESTED REVISION:                                                       10
    STANDARD:         IEEE Std. 802.3-2002                                11
    CLAUSE NUMBER:    28C.7                                               12
    CLAUSE TITLE:     Message Code #6--PHY identifier tag code           13
                                                                          14
PROPOSED REVISION TEXT:                                                   15
                                                                          16
See attached draft.                                                      17
                                                                          18
RATIONALE FOR REVISION:                                                  19
                                                                          20
The current wording is insufficient to unambiguously implement this      21
feature. Specific problems include:                                      22
                                                                          23
    1) Bit-specification wording is very hard to follow; a figure is     24
       needed.                                                            25
    2) The bit ordering within-byte ordering is different from the       26
       IEEE/RAC                                                           27
       usage, and should therefore be _very_ clearly illustrated.        28
                                                                          29
IMPACT ON EXISTING NETWORKS:                                             30
                                                                          31
Unknown. If networks have been implemented based on different            32
assumptions of this text, incompatibilities could possible exist.        33
However, given minimal use of this feature, problems are expected to be  34
rare if this is fixed now.                                               35
                                                                          36
                                                                          37
+-----------------------------------------------------------------+       38
| Please attach supporting material, if any                       |       39
| Submit to:- Bob Grow, Chair IEEE 802.3                          |       40
|            E-Mail: Bob.Grow@intel.com                           |       41
|                                                                 |       42
|          +------- For official 802.3 use -----------+          |       43
|          | REV REQ NUMBER: 1122                      |          |       44
|          | DATE RECEIVED: 17th Dec, 2003             |          |       45
|          | EDITORIAL/TECHNICAL                       |          |       46
|          | ACCEPTED/DENIED                           |          |       47
|          | BALLOT REQ'D YES/NO                       |          |       48
|          | COMMENTS: 29-Sep-04 Ver: D2.0 Status: F   |          |       49
+------------+-------------------------------------------+--------+       50
| For information about this Revision Request see -               |       51
|http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1122 |  52
+-----------------------------------------------------------------+       53
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Clarification of OUI usage

This contribution provides replacement text for 28C.7 of IEEE Std 802.3-2002. The intent is not to change the specification, but to clearly document how bits within the current definition are utilized. The author is not advocating a particular technical alternative, but is advocating that the assumed alternative be well documented.

The intent is to clarify the intent and thereby to assist the on-going use of thes subclauses by appropriate organizations.

28C.7 Message code #6−PHY identifier tag code

The PHY ID tag code message shall consist of a single shall consist of a single message code of $0000\,0000\,0110_2$ followed by four user codes. For example, assume that a manufacturer's IEEE-assigned OUI value is AC-DE-48, the manufacturer's model number is 101100_2, manufacturer's revision number is 0111_2, and the PHY-dependent information is 000011111100_2. The message codes generated from these values are encoded into four message codes, as specified in Figure 28.1. For clarity, the position of the global broadcast g is illustrated.
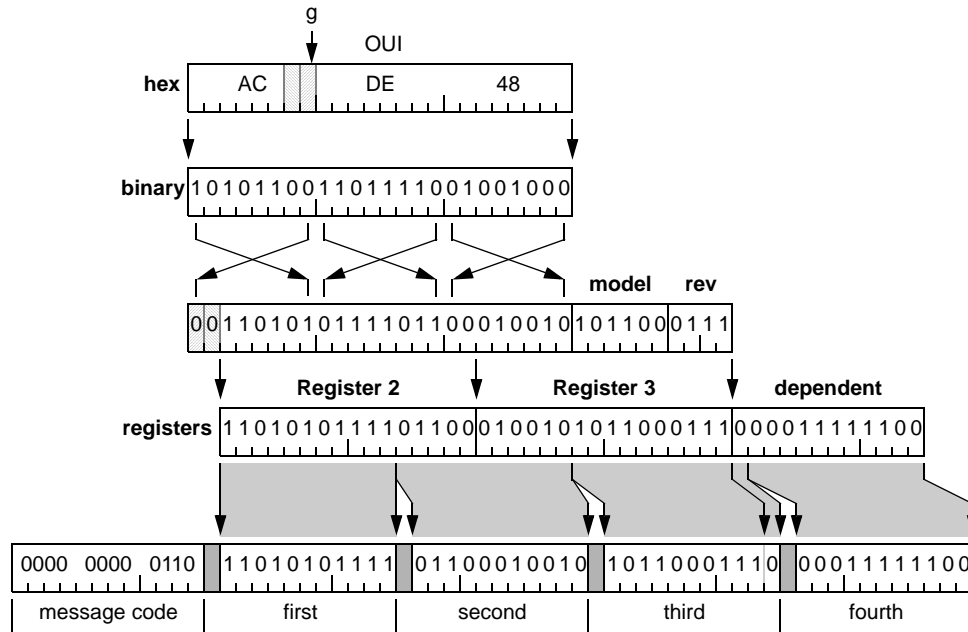
Figure 28.1—Message code #6 sequence