IEEE 802.3 Maintenance

March 18th, 2004
Orlando, FL
David Law
Activities this week

• Met Wednesday afternoon
  – IEEE Std 802.3 document plan
  – Open Maintenance Requests
  – Auto-negotiation selector field
IEEE Std 802.3REVam document plan #1

ISO/IEC 8802-3

IEEE Std 802.3-2002
Published 03/02
1540 pages

IEEE Std 802.3af-2003
DTE Power via MDI
Published 06/03
133 pages

IEEE Std 802.3aj-2003
Maintenance #7
Published 09/03
84 pages

IEEE Std 802.3ak-2004
10GBASE-CX4
Published 03/04
43 pages

IEEE Std 802.3REVam Consolidated edition

IEEE P802.3REVam Maintenance #8
Target publication 03/05

ISO/IEC 8802-3:2003/AM1

IEEE P802.3REVam
November 2004

IEEE P802.3REVam
First Mile Ethernet
Approved draft
564 Pages

IEEE Std 802.3REVam document plan #1

Note: Target publication date is target standards board approval plus three months.

IEEE Std 802.3REVam document plan #2

ISO/IEC 8802-3
- IEEE Std 802.3-2002
  - Published 03/02
  - 1540 pages
- IEEE Std 802.3af-2003
  - DTE Power via MDI
  - Published 06/03
  - 133 pages
- IEEE Std 802.3ae-2002
  - 10Gb/s Ethernet
  - Published 08/02
  - 529 pages
- IEEE Std 802.3aj-2003
  - Maintenance #7
  - Published 09/03
  - 84 pages
- IEEE Std 802.3ak-2004
  - 10GBASE-CX4
  - Published 03/04
  - 43 pages

ISO/IEC 8802-3:2003
- ISO/IEC 8802-3:2003/AM1
- ISO/IEC 8802-3:2003/AM2

IEEE P802.3REVam
- Consolidated edition
- Target publication 06/05

IEEE P802.3ah
- First Mile Ethernet
- Target publication 09/04
- 564 Pages

Note: Target publication date is target standards board approval plus three months.

2002 | 2003 | 2004 | 2005

Rev 2.1 (18/03/04)
IEEE Std 802.3REVam Plan

Maintenance meeting to select final requests to included in IEEE P802.3REVam 'draft'

IEEE P802.3REVam draft for Working Group preview

LMSC Sponsor Ballot

RevCom/SB approval

IEEE P802.3REVam draft complete

☐ = Plenary Mtg
◇ = Interim Mtg

Rev 2.1 (18/03/04)
Classification of new requests

- The 3 errata were considered essential
  - An errata sheet will be issued
IEEE Std 802.3-2002 errata

• Request 1128 (36.2.5.1.3/4)
  – Appears to be a font problem
  – In all three cases the ‘Œ’ should be a ‘∈’ (indicates membership).

VOID(x)
  x (Œ /D/, /T/, /R/, /K28.5/). Substitutes /V/ on a per code-group basis as requested by the GMII.

cgbad
  Alias for the following terms: ((rx_code-groupŒ/INVALID/) + (rx_code-group=/COMMA/
  *rx_even=TRUE)) * PMA_UNITDATA.indicate

cggood
  Alias for the following terms: !(rx_code-groupŒ/INVALID/) + (rx_code-group=/COMMA/
  *rx_even=TRUE)) * PMA_UNITDATA.indicate
IEEE Std 802.3ae-2002 errata

- Requests 1131 (4.2.7.1) and 1133 (4.2.8)
  - Strikeouts in approved draft not in published standard

```plaintext
D5.0

headerBits ::= (headerContents : array [1..headerSize] of Bit)
headerBits: (headerContents: array [1..headerSize] of Bit)
end; {Defines header for MAC frame}

Std

headerBits ::= (headerContents : array [1..headerSize] of Bit)
headerBits: (headerContents: array [1..headerSize] of Bit)
end; {Defines header for MAC frame}

D5.0

function ComputePad(
    var dataParam: DataValue): DataValue;
begin
    ComputePad := {Append an array of size padSize of arbitrary bits to the MAC client dataField}
end; {ComputePadParam}

Std

function ComputePad(
    var dataParam: DataValue): DataValue;
begin
    ComputePad := {Append an array of size padSize of arbitrary bits to the MAC client dataField}
end; {ComputePadParam}
```
## Request to be included in IEEE P802.3REVam

<table>
<thead>
<tr>
<th>Num</th>
<th>Stat</th>
<th>Std</th>
<th>Subclause</th>
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</table>

B – Ready for Ballot  
E - Errata
Auto-negotiation selector field

Selector Field definitions

The Selector Field, S[4:0] in the Link Code Word, shall be used to identify the type of message being sent by Auto-Negotiation. The following table identifies the types of messages that may be sent. As new messages are developed, this table will be updated accordingly.

The Selector Field uses a 5-bit binary encoding, which allows 32 messages to be defined. All unspecified combinations are reserved. Reserved combinations shall not be transmitted.

Table 28A–1—Selector Field value mappings

<table>
<thead>
<tr>
<th>S4</th>
<th>S3</th>
<th>S2</th>
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</table>

^aFor up-to-date information on the allocation of Auto-Negotiation Selector fields see
http://www.ieee802.org/3/selectors/selectors.html
Auto-negotiation selector field

• Request from IEEE std 1394
  – Allocated value 00100
  – Web site will be updated
  – Include in IEEE P802.3REVam
IEEE P802.3REVam Maintenance 8 Task Force status

- IEEE Std 802.3REVam Maintenance 8
  - PAR approved 27 February 2004 by IEEE-SA Standards Board (continuous processing).
  - Plan dependent on IEEE P802.3ah approval date
    - Preceding based on June approval date
IEEE P802.3REVam Plans

• Meet at May Interim meeting  
  – Final chance to add requests  
  – Review draft status  

• Produce draft D1.0  
  – Consolidate edition  
    • Including all B (Ready for Ballot) or E (Errata) request  
  – Approved IEEE P802.3ah draft  

• Pre-circulate D1.0 prior to July plenary  
  – Request Working Group Ballot
Maintenance Web Information

- The Maintenance web site is at:


- The Maintenance request form is available at:

  http://www.ieee802.org/3/private/maint/revision_request.html
  Username: ******
  Password: *********
  Password is case sensitive