

IEEE 802.3 Maintenance

March 18th, 2004

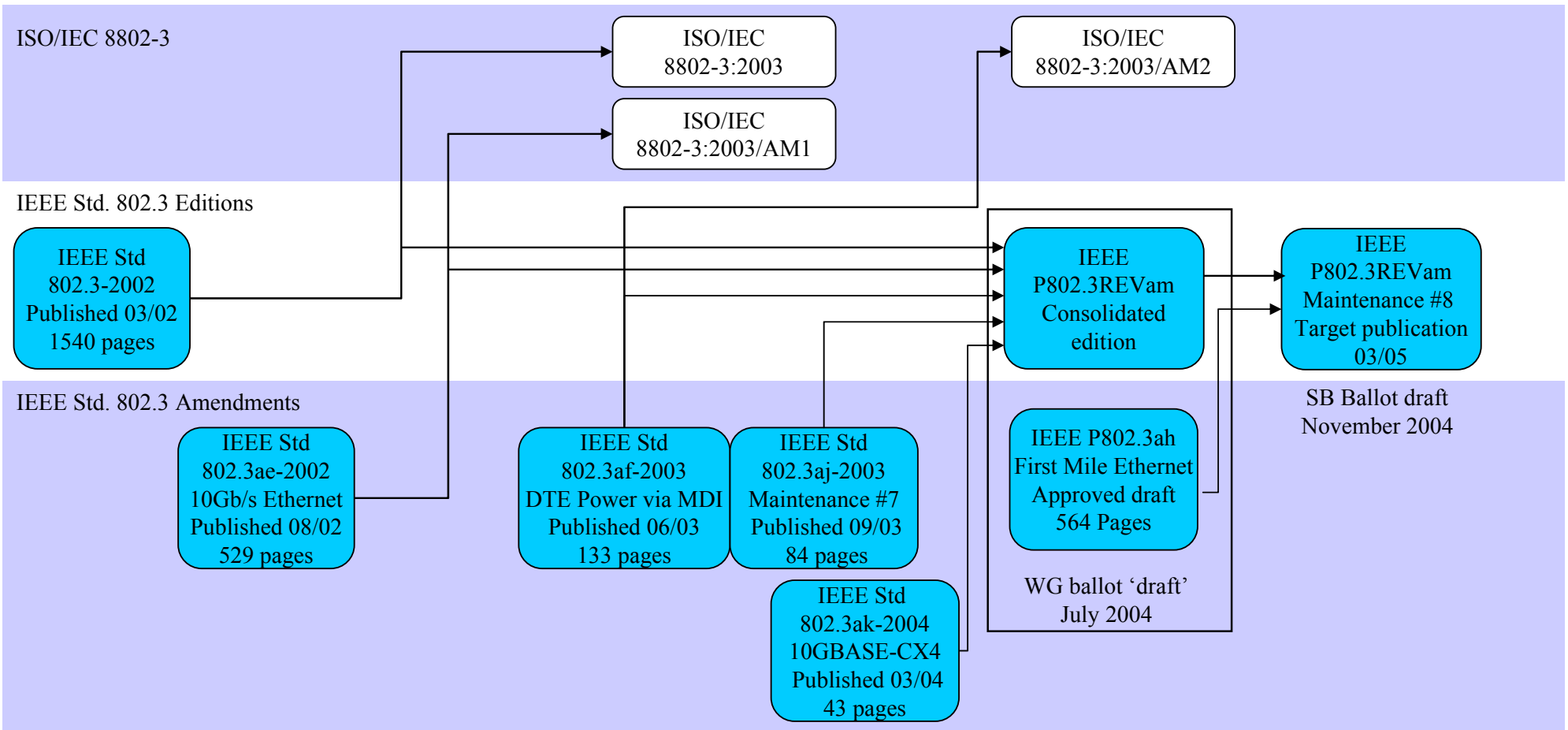
Orlando, FL

David Law

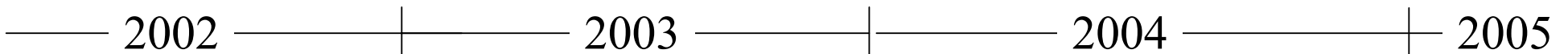
Activities this week

- Met Wednesday afternoon
 - IEEE Std 802.3 document plan
 - Open Maintenance Requests
 - Auto-negotiation selector field

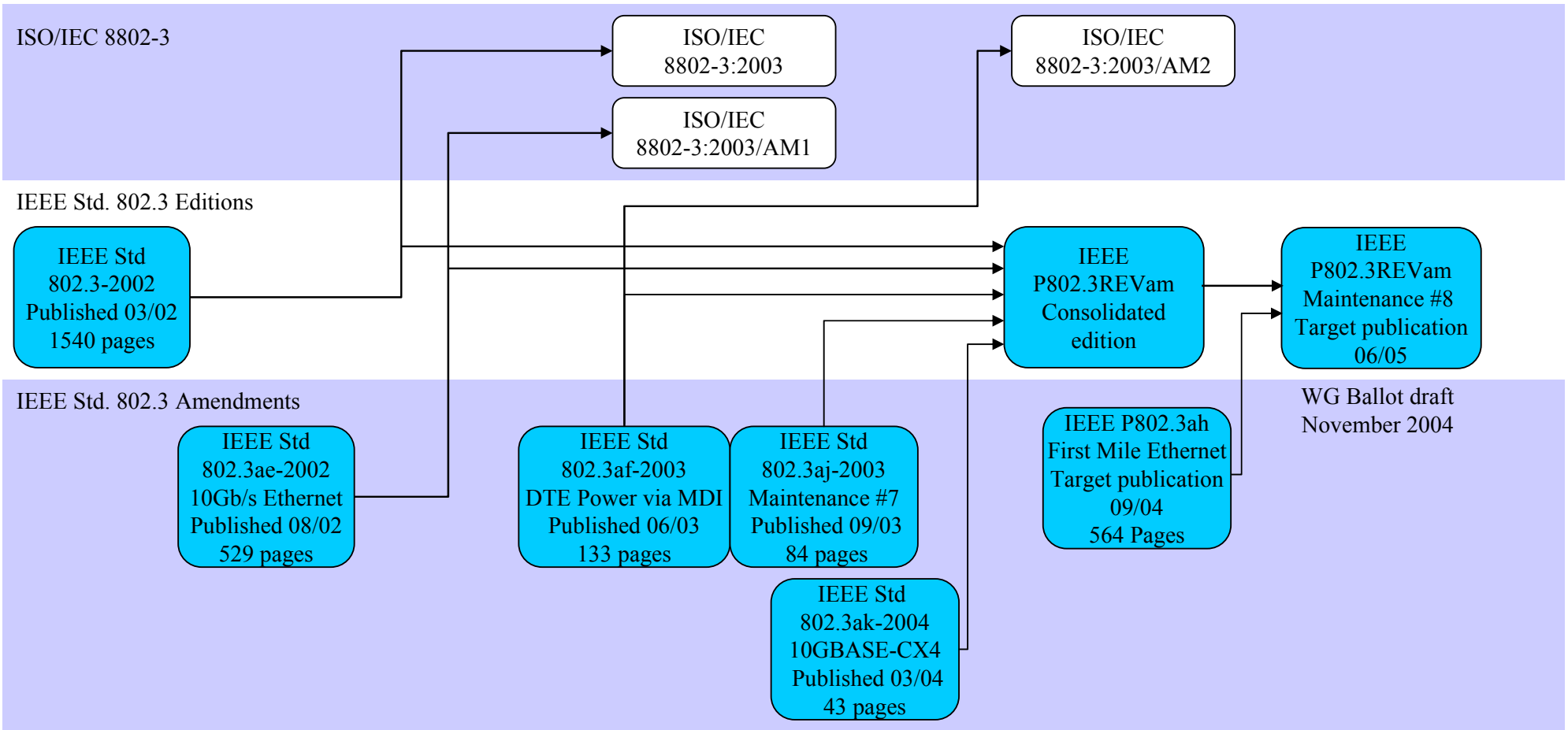
IEEE Std 802.3REVam document plan #1



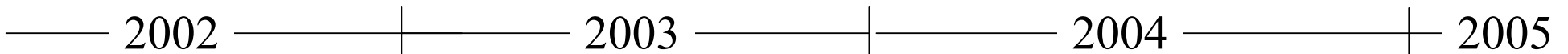
Note: Target publication date is target standards board approval plus three months.



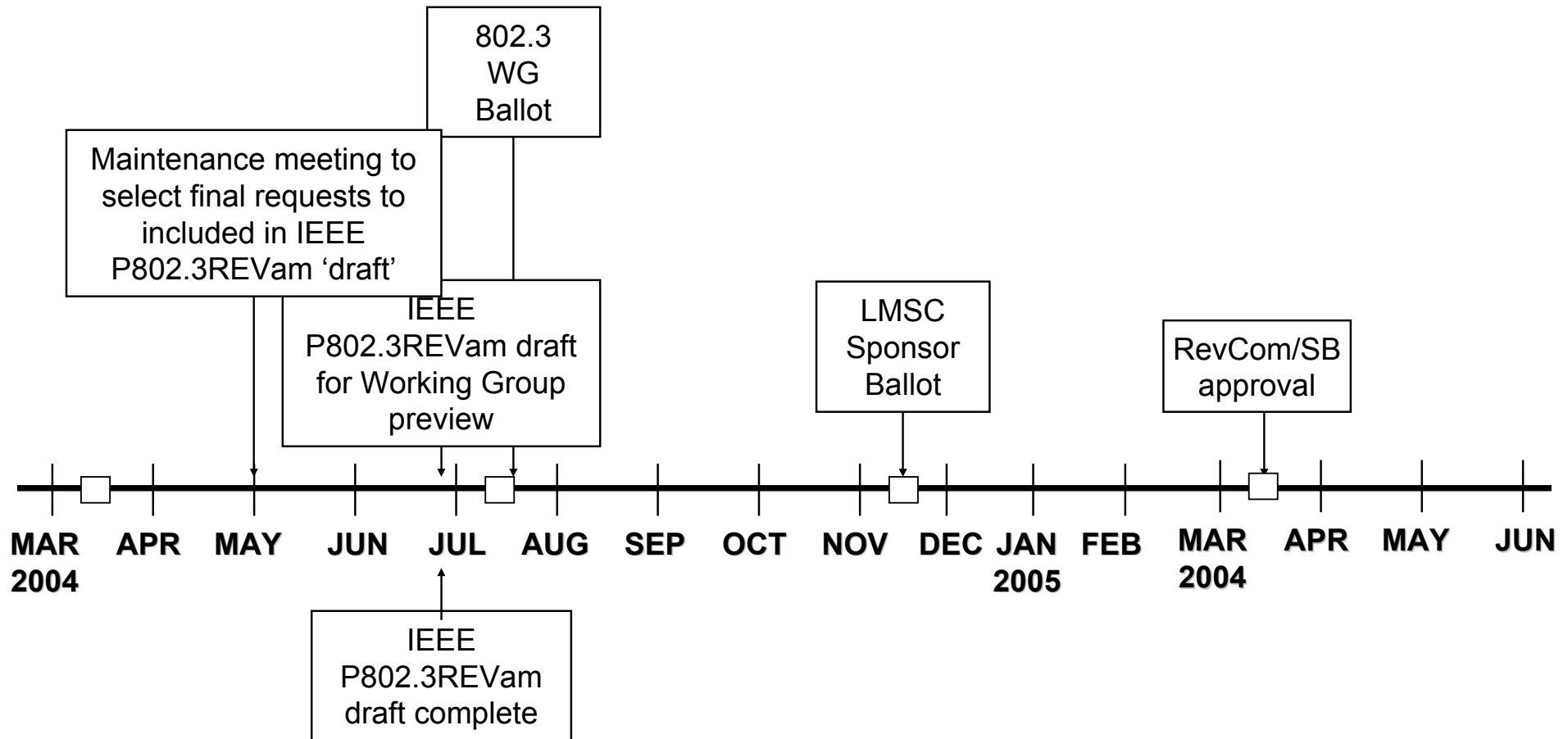
IEEE Std 802.3REVam document plan #2



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



IEEE Std 802.3REVam Plan



- = Plenary Mtg
- ◇ = Interim Mtg

Classification of new requests

1125	24.8.3.2	PICS - PCS functions	B
1126	26.4.1	Medium Dependent Interface (MDI)	B
1127	3.2.3	Address Fields	B
1128	36.2.5.1.3/4	Functions & Variables	E
1129	Front matter	Additional text for introduction	W
1130	24.2.4.2	Transmit	W
1131	4.2.7.1	Common constants, types, variables	E
1132	4.2.3.1	Transmit data encapsulation	B
1133	4.2.8	Frame transmission	E

- 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

D5.0

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

Std

```
headerBits : (  
headerContents : array [1..headerSize] of Bit)  
headerBits: (headerContents: array [1..headerSize] of Bit)  
end; {dDefines 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

Num	Stat	Std	Subclause	Date	Subject
1105	B	802.3ae-2002	45.2.3.15.1	14-Nov-02	Register cross reference error
1106	B	802.3ae-2002	30.3.2.1.5	20-Feb-03	Incorrect cross references
1108	E	802.3ae-2002	Annex 48B	30-May-03	Jitter test methods
1110	B	802.3ae-2002	53.15.4.3	17-Aug-03	Management Functions, item MR6
1111	B	802.3ae-2002	53.15.4.3	17-Aug-03	Management Functions, item MR7
1112	E	802.3ae-2002	Various	17-Aug-03	PICS copyright release statement
1113	B	802.3ae-2002	45.2.3	17-Aug-03	PCS registers
1114	B	802.3ae-2002	45.2.5.8	17-Aug-03	10G DTE XGXS lane status register
1115	B	802.3-2002	23.7.1,	02-Oct-03	MDI Connectors
1116	E	802.3af-2003	Annex 33A	22-Oct-03	PSE Detection of PDs - Figure 33A.2
1117	B	802.3af-2003	33.2.3.7	31-Oct-03	PSE State Diagrams
1118	B	802.3ae-2002	48.2.4.2	31-Oct-03	Idle I
1119	B	802.3af-2003	33.2.7.2	15-Nov-03	PSE classification
1120	B	802.3-2002	1.4	25-Nov-03	Definition of Type
1121	B	802.3-2002	28C.6	17-Dec-03	Message Code #5
1122	B	802.3-2002	28C.7	17-Dec-03	Message Code #6
1123	B	802.3-2002	24.2.4.2	05-Jan-04	Transmit
1124	B	802.3-2002	Front	05-Jan-04	Introduction to IEEE Std 802.3-2002
1125	B	802.3-2002	24.8.3.2	10-Feb-04	PICS - PCS functions
1126	B	802.3-2002	26.4.1	10-Feb-04	Medium Dependent Interface (MDI)
1127	B	802.3-2002	3.2.3	10-Feb-04	Address Fields
1128	E	802.3-2002	36.2.5.1.4	1-Mar-04	Functions & Variables
1131	E	802.3ae-2002	4.2.7.1	10-Mar-04	Constants, types, and variables
1132	B	802.3ae-2002	4.2.3.1	10-Mar-04	Transmit data encapsulation
1133	E	802.3ae-2002	4.2.8	16-Mar-04	Frame transmission

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

S4	S3	S2	S1	S0	Selector description
0	0	0	0	0	Reserved for future Auto-Negotiation development
0	0	0	0	1	IEEE Std 802.3
0	0	0	1	0	IEEE Std 802.9 ISLAN-16T
0	0	0	1	1	IEEE Std 802.5
1	1	1	1	1	Reserved for future Auto-Negotiation development ^a

^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:

<http://www.ieee802.org/3/maint/index.html>

- The Maintenance request form is available at:

http://www.ieee802.org/3/private/maint/revision_request.html

Username: *****

Password: *****

Password **is** case sensitive