

# Reorganizing the 802.3 Std.

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Presentation to

802.3 Albuquerque, Nov. 10, 2003

# We Have Problems:

- Revision required next year
- The current standard is huge and unwieldy

# A Revision IS Required in 2004

- Required by number of amendments and time since 2002 Revision per IEEE procedures.
- We have a choice:
  - 1) Minimalist revision as part of a Maint Ballot (as we have done in the past)
  - 2) Reorganize the Standard to address size and scope issues.
- **WE DO HAVE A PROBLEM !**

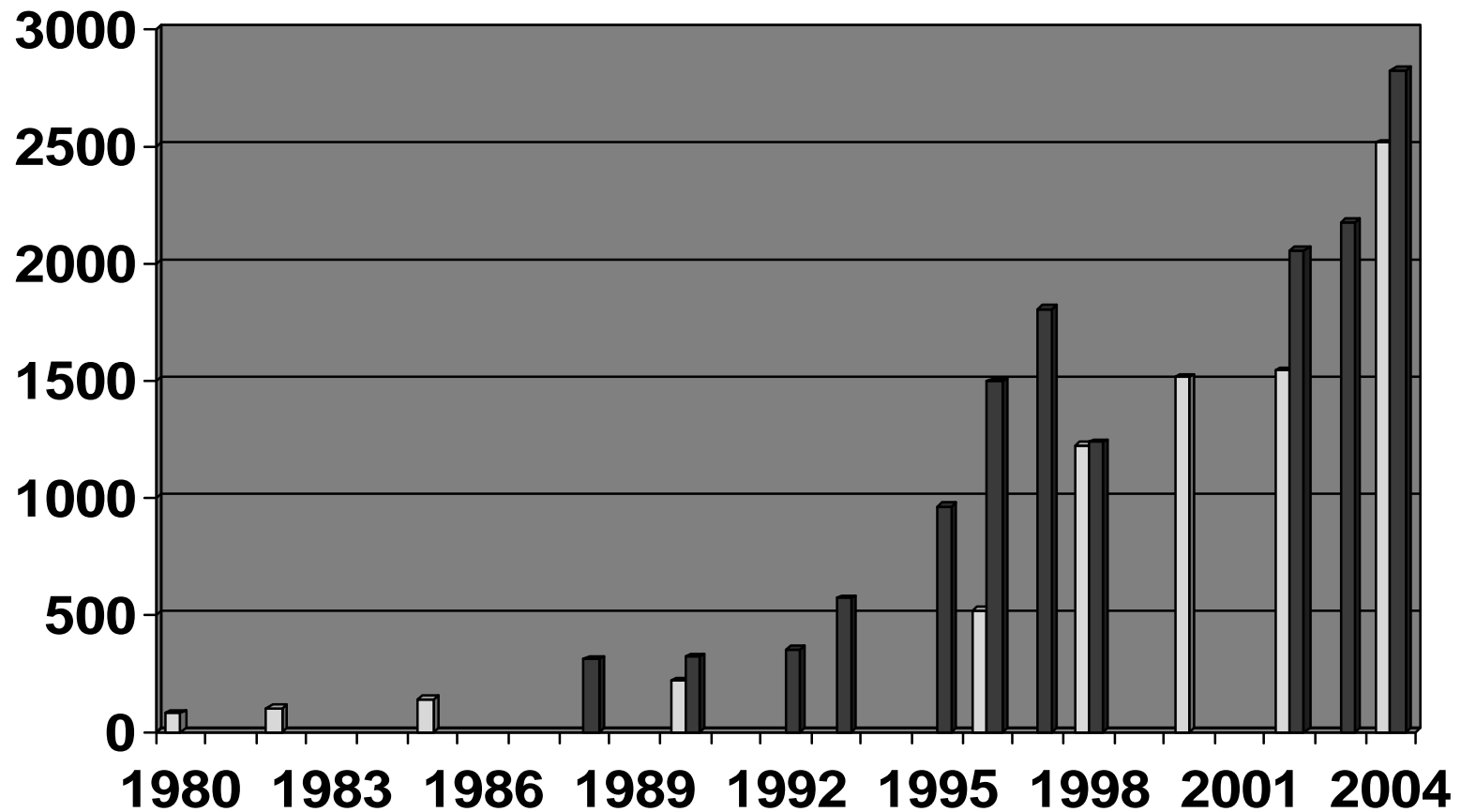
# Problem?

## What Problem?

(Ethernet just grew and grew)

- Ethernet V2.0, 1982, 113 pages
- 802.3-1985 (1<sup>st</sup> edition), 143 pages
- ISO 8802-3:1996 (8023.a Through 802.3s, last before 100 Mb/s), 517 pages
- 100BASE-T (1995) volume was another 410 pages before integration

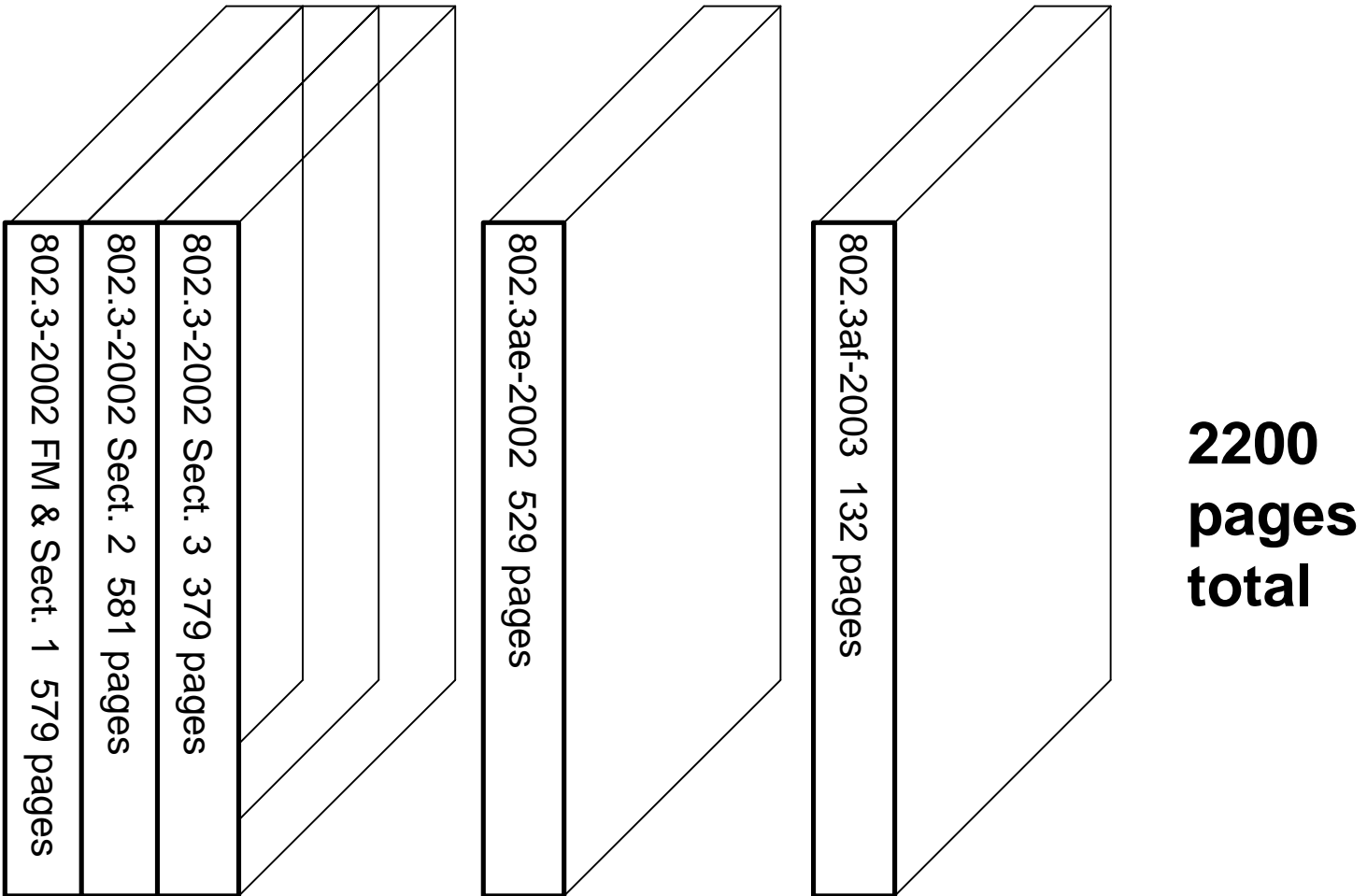
**See how it grew...**



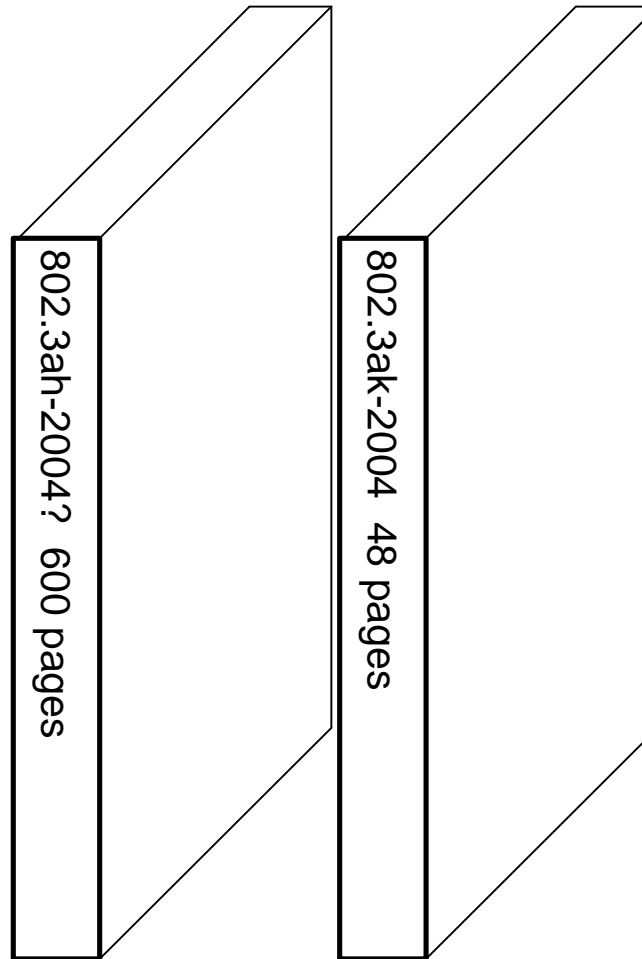
.Light Blue is integrated volume, Dark Blue is sum of all bindings

## IEEE Std 802.3 Page Growth (1980 – 2004)

# IEEE Std 802.3 of today



plus Std 802.3 of tomorrow...



**Makes  
2514  
pages  
total**

# Less graphics, Real Numbers!

<b>802.3 std in 2004</b>	<b>Now</b>	<b>Post integ?</b>
Front matter	27	27
Normative Section 1	552	558
Section 2	581	692
Section 3	379	379
802.3ae	529	387
802.3af	132	(into sect 2)
802.3ah	600	443
802.3ak	48	28
<b>Total pages</b>	<b>2848</b>	<b>2514</b>



## Example:

- 802.3ae has 151 pages of change instructions to the existing std which should expand the existing clauses by about 24 pages plus add new clauses of 363 pages!

## The Result:

- New work is almost impossible to evaluate in the context of ~2500 pages of existing standard!
- We have demand for new application areas that would fit better in separate books within 802.3.

# IEEE Std 802.3 if restructured



**We could prune and reorganize!**

## **I WOULD PROPOSE:**

- **Move out obsolete pieces to a “reference only” standard.**
- **Break active standard into several pieces**
- **Discuss how to do all of this in Maint. Meeting this week**
- **Ref: Maint Request #1109 as a foundation for the work**

# **RU Interested?**

**Join us on Wednesday  
In the Maintenance TF Mtg**