Interface Names
## Use of Gigabit vs. Gb/s per Section

<table>
<thead>
<tr>
<th>Section</th>
<th>Gigabit Media</th>
<th>Gigabit Attachment</th>
<th>Gb/s Media</th>
<th>Gb/s Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
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<tr>
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<td>0</td>
<td>0</td>
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<tr>
<td>5</td>
<td>24</td>
<td>3</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>0</td>
<td>3</td>
<td>53</td>
<td>66</td>
</tr>
</tbody>
</table>

- Gb/s Media in Section 5 was due to modifications by 802.3ba
- Section 6 does make use of Gigabit Attachment in 80.1.3
  - Interface definitions
40G and 100G Exceptions

• Uses Gigabit instead of Gb/s in Clause 1
• Original 10 Gigabit Media Independent Interface used in IEEE Std. 802.3-2008 Clauses 73 and 74 was changed by .3ba to be 10 Gb/s
• Only 6 instances of Gb/s in Section 5
  • Figures 73-1 and 74-1
  • Figure 69-1 uses Gigabit
• Section 6
  • No use of Gigabit Media, only uses Gb/s Media
  • Mixes use of Gigabit Attachment and Gb/s Attachment
P802.3ae Background – Why Gigabit?

• 1G used Gigabit Media Independent Interface so natural follow-on
• 10G specified three interfaces
  • 10 Gigabit Media Independent Interface (XGMII)
  • 10 Gigabit Attachment Unit Interface (XAUI)
  • 10 Gigabit Sixteen-Bit Interface (XSBI)
• Naming tied to the project (10 Gigabit Ethernet) vs. a specific rate
  • A lot of concern about specifying rates due to WAN PHY
    • “Support a speed of 10.000 Gb/s at the MAC/PLS service interface”
  • XAUI and XSBI did not operate at 10 Gb/s
Clause 55 Exception

- For some bizarre reason, Ten Gigabit was used instead of 10 Gigabit
- Only four instances, all located in Clause 55
- Submit comment against 802.3 REV to correct to match definition used in Clause 1
- Who chaired this thing?? ;-)

Inconsistency

• 802.3 is consistently inconsistent!
  • But it doesn’t have to be...

• Options:
  1. Convert Gb/s to Gigabit
     • 6 changes to Section 5 and 118 changes to Section 6
     • Creates a consistent use throughout the standard
     • Set a consistent use going forward
  2. Let 40 and 100 continue to use Gb/s
     • 5 changes to Section 1, 2 changes to Section 5, and 3 changes to Section 6
     • Least number of changes
     • Move to Gb/s for all future projects?