Aims and shortfalls

- Guide dot groups and implementers to implement to the ISS
  - Define the primitives used
  - Define the mapping of the primitives to the MACs
    - Current Annex B has errors and covers many less MACs than 802.1Q 6.7

- Describe the interfaces to the MAC layer in one place
  - In particular, the interfaces common to a bridge and an end station
    - Implies restricting 802.1AC to the parameters required for the MAC Service
  - The EISS as defined is specific to a bridge, in that
    - it includes PVID, and
    - has no parameter to indicate whether the received frame was tagged.

- Describe the basic architectural concepts and terms
  - The text in Annex C of 802.1AC duplicates 802.1Q 6.1 and is not perfectly aligned with it
Copy some subclauses from 802.1Q, intending to remove them from Q in a future revision:

- **6.1 Basic architectural concepts and terms**
  - This would be unified with our current Annex C and placed early in the draft
- **?? Probably NOT 6.2 Provision of the MAC service**
  - It talks about how the bridge does these things
- **NOT 6.3 Support of the MAC Service**
  - It talks separately about how bridges and end stations can handle VLANs; and objectives of Bridge operation
- **?? Probably not 6.4 Preservation of the MAC Service**
  - It talks about how Bridges preserve the MAC Service.
- **NOT 6.5 Quality of Service Maintenance**
  - Instead, 9.2 of 802.1AC/D1.3 refers to QoS parameters defined in 6.5 of Q
- **6.6 ISS would be removed from Q in future, replaced by 10 of AC**
  - Q would need to enhance the 802.1AC ISS with its bridge-specific parameters
- **6.7 Support of the Internal Sublayer Service by specific MAC procedures**
- Probably not 6.8 EISS
- Probably not 6.9 Support of the EISS
  - Because it’s likely EISS will be removed from AC
- NOT 6.10 Support of the ISS/EISS by Provider Instance Ports
- NOT 6.11 Support of the EISS by Customer Backbone Ports
- NOT 6.12 Protocol VLAN classification
- NOT 6.13 Support of the ISS for attachment to a Provider Bridged Network
- NOT 6.14 Support of the ISS within a system
- **Probably 6.15 Support of the ISS by additional technologies**
  - Though this talks about EISS parameters (VID)
- NOT 6.16 Filtering services in Bridged Local Area Networks
- NOT 6.17 EISS Multiplex Entity
- NOT 6.18 Backbone Service Instance Multiplex Entity
- NOT 6.19 TESI Multiplex Entity
- NOT 6.20 Support of the ISS with signaled priority
Structural choices – unleashed

- Replace most of the content of Clause 10 of 802.1AC/D1.3 with a reference to 6.6 of 802.1Q
  - This would need to be a strong conformance reference
  - The ISS in 802.1Q is based on the MAC Service from 15802-1 which is reflective in nature.
  - The text for the ISS in 802.1AC is more detailed than that in 802.1Q

- Retain Clause 11 (MAC Service)

- Presumably remove Clause 12 (EISS)

- Remove Annex B. Include a reference in Clause 10 to 6.7 of 802.1Q.

- Remove Annex C. Perhaps add a reference to 6.1 of 802.1Q.
### Pros and Cons

<table>
<thead>
<tr>
<th>Feature</th>
<th>Premium</th>
<th>Unleaded</th>
<th>Draft 1.3</th>
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</thead>
</table>
| • Guidance to dot groups  
• Describe the interfaces to the MAC layer in one place  
• Describe the basic architectural concepts and terms | Information is all here | Have to refer to a combination of documents | Information is all here |
| Annex B (Mapping) | Incorporates best available spec (6.7 of Q) | Refers to 6.7 of Q | Information is wrong |
| Separation of features - | Incorporates interface details common to end station and bridge | Some end station interface features remain in 802.1Q | Includes too much (bridge-specific EISS) |
Thank You

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