P802.1ag Draft 2.0 Diagrams

Architectural Concepts

Norman Finn
Maintenance Domains

- Figure 18-1 Maintenance Associations / Domains
Maintenance Domains

- Figure 18-2 Maintenance Associations / Domains
Maintenance Domains

• “Exterior” is inside Bridge, “Interior” outside.
Maintenance Domains

- “Exterior” is outside Bridge, “Interior” inside.
• Two Domains meet at Port 3
• Two Domains nest at Port 6.
• Unused DSAPs block the data flow.
Support of the EISS

- Figure 18-3 Current architecture
- EISS is a point entity that adds and removes the VID.
• EISS and ISS are now a symmetrical interfaces, and thus “stackable”.

• Figure 18-4 Expand “Support of the EISS” to be a conversion shim.
Stackable Maintenance Point

- Figure 18-5 Maintenance Point (MEP or MIP)
• Figure 18-6 MEP structure
• Separates data from CFM Messages
MEP/MIP Parse / Multiplex Function

- Switch/multiplex, not replicate.
• **Block MA Levels inferior to IFF.**
• **Switch MA Levels equal to IFF.**
MEP/MIP Level Filter Function

- Replicate MA Levels superior to IFF.
MEP Interior-Facing Function

- Do CCM, LBM, LBR, LTM, LTR; receive AIS.
• Monitor CCM, AIS; transmit AIS.
• IFF may be replaced by inferior layer functions.
MEP Exterior-Facing Function

- EFF not present if no AIS.
Both EFF and IFF (MIP)

- Respond to LBM, LTM.
• Block all CFM Messages, and perhaps data.
CFM Message Filter has no MIP Function

- Respond to LBM, LTM.
Support of the EISS

- CFM Sublayer may be inserted either above or below the “Support of the EISS” Sublayer.
- For that matter, it may be inserted below the Bridge Port.
Exterior-Facing Function (MEP)

- MEP may face in either direction.
Exterior-Facing Function (MEP)

- **Down MEP looks like ...**
MEP can face either way

- “Down” MEP: Domain interior is outside bridge.
Exterior-Facing Function (MEP)

- Up MEP looks like

...
MEP can face either way

- “Up” MEP: Domain interior is inside bridge.
Continuity Check Message copying

- OLD diagram: MIPs are important

message copying by MIPs
Continuity Check Message copying

- NEW diagram: MIPs are irrelevant (and edge domain made most inferior)