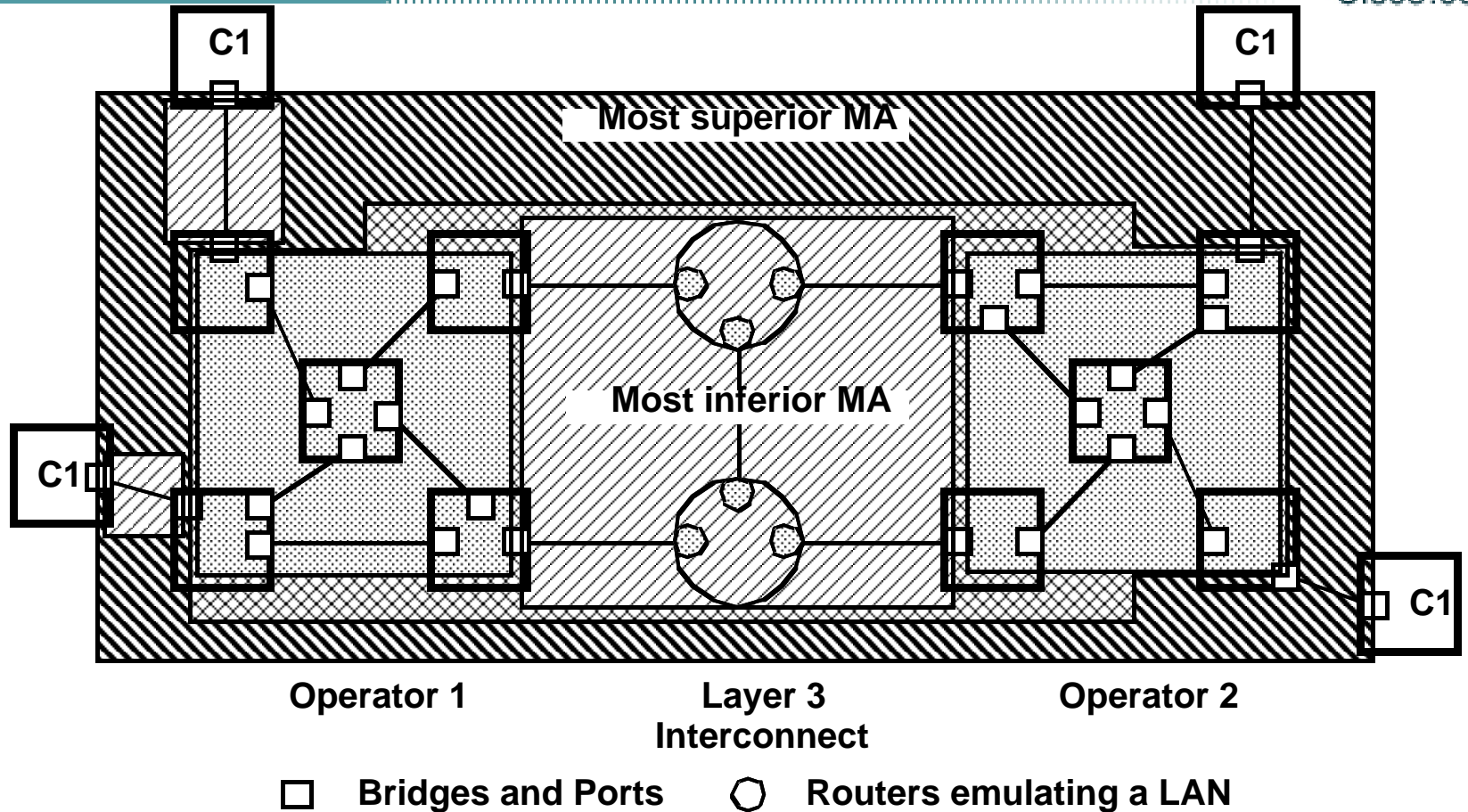


# P802.1ag Draft 2.0 Diagrams

**Architectural Concepts**

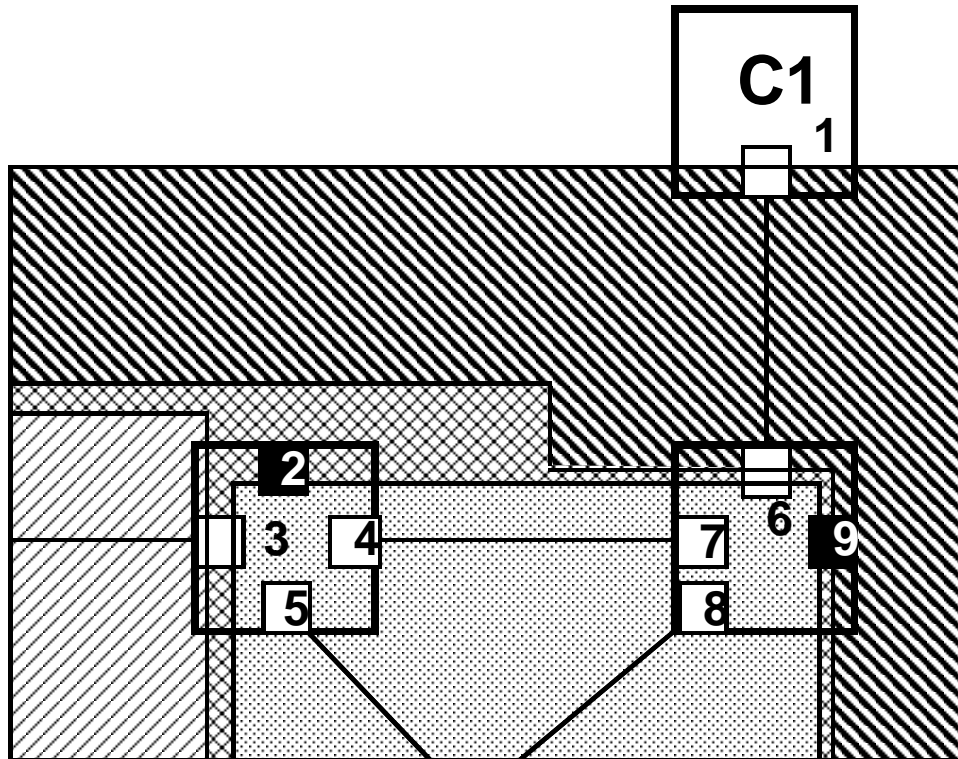
**Norman Finn**

# Maintenance Domains



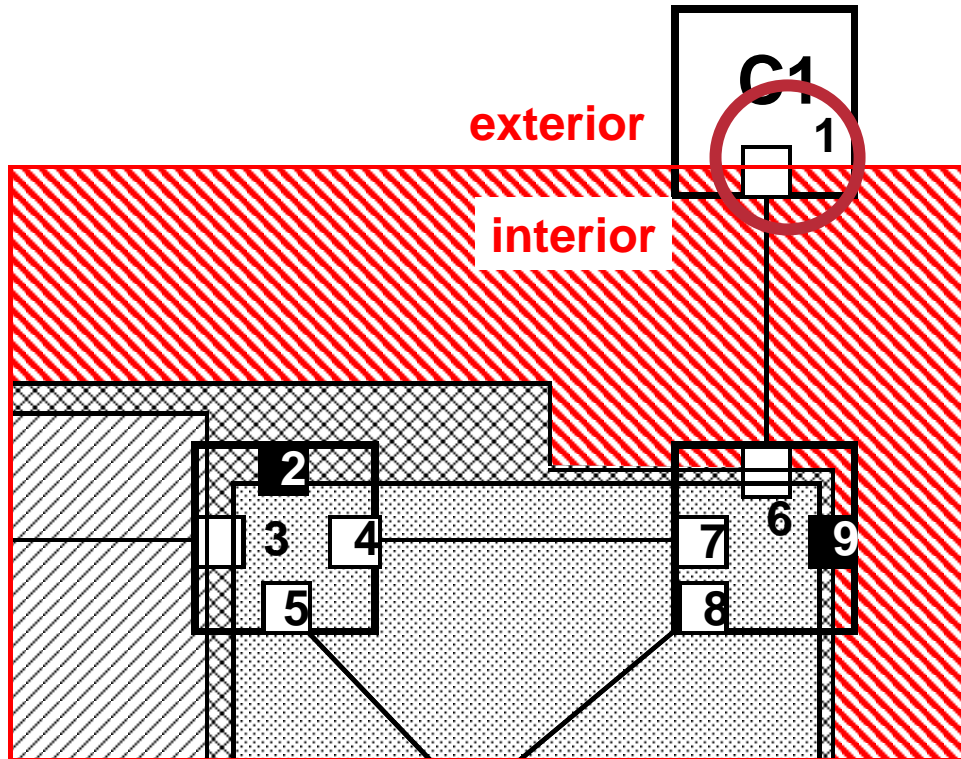
• **Figure 18-1 Maintenance Associations / Domains**

# Maintenance Domains



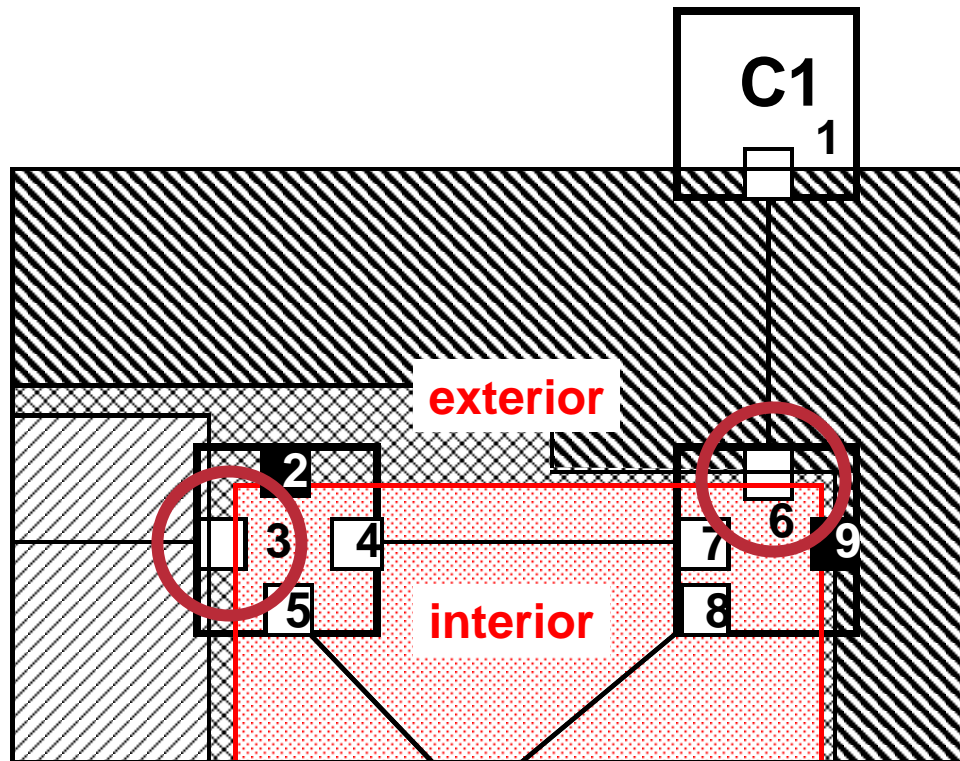
- **Figure 18-2 Maintenance Associations / Domains**

# Maintenance Domains



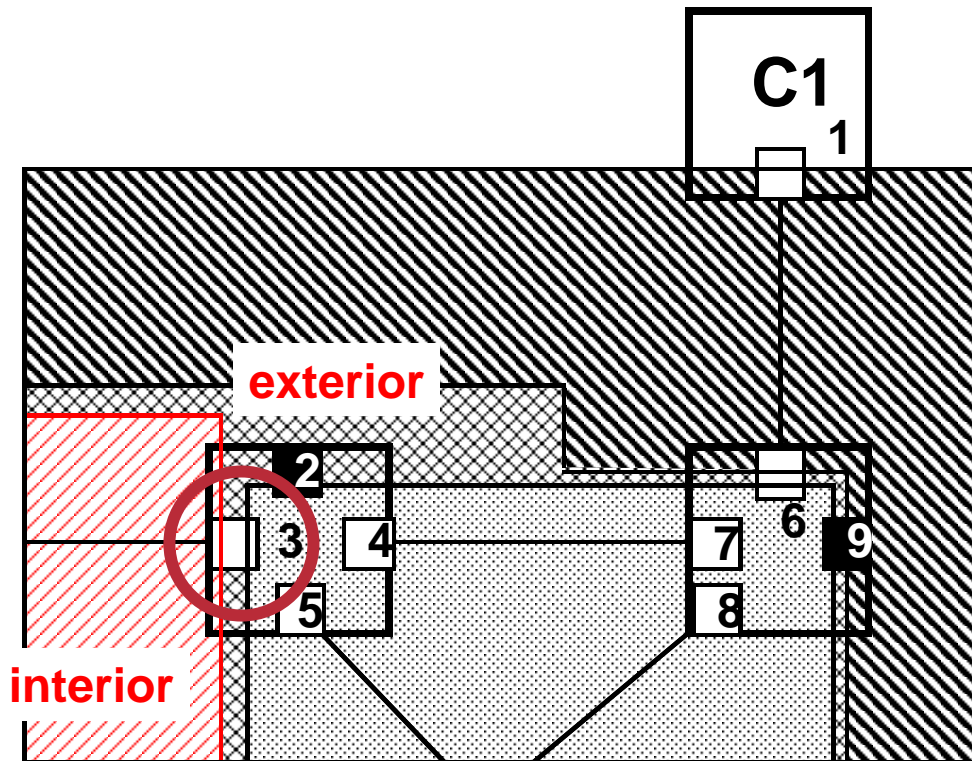
- “Exterior” is inside Bridge, “Interior” outside.

# Maintenance Domains



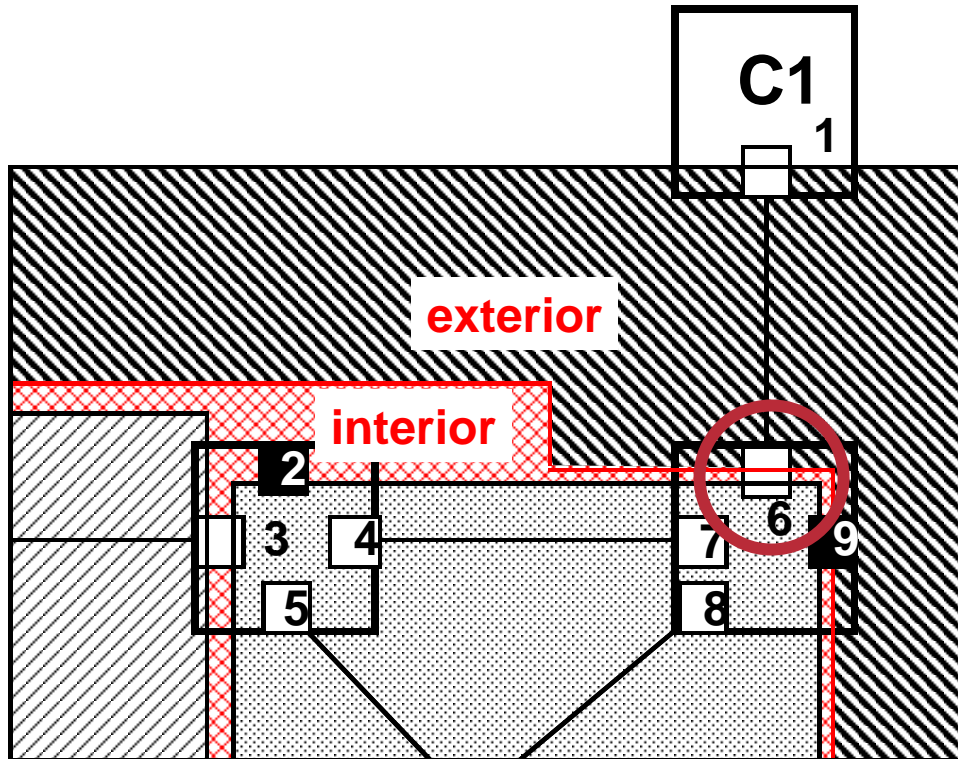
- “Exterior” is outside Bridge, “Interior” inside.

# Maintenance Domains



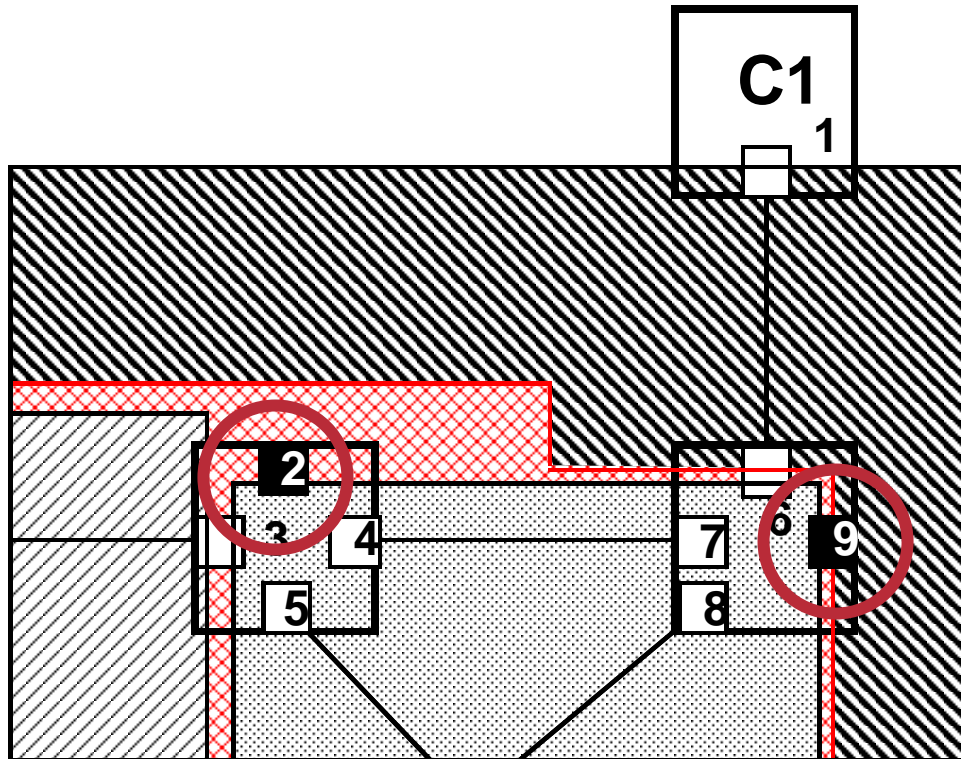
- **Two Domains meet at Port 3**

# Maintenance Domains



- **Two Domains nest at Port 6.**

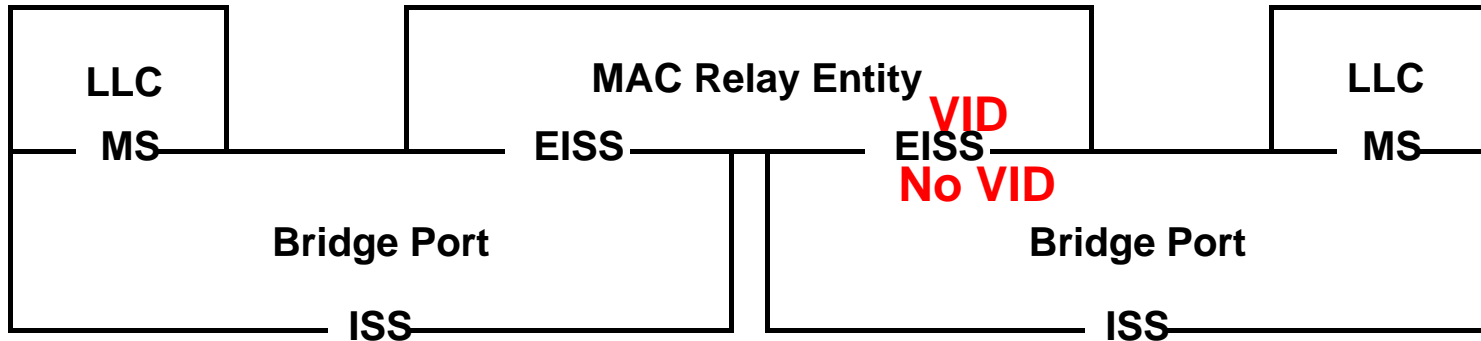
# Maintenance Domains



- **Unused DSAPs block the data flow.**

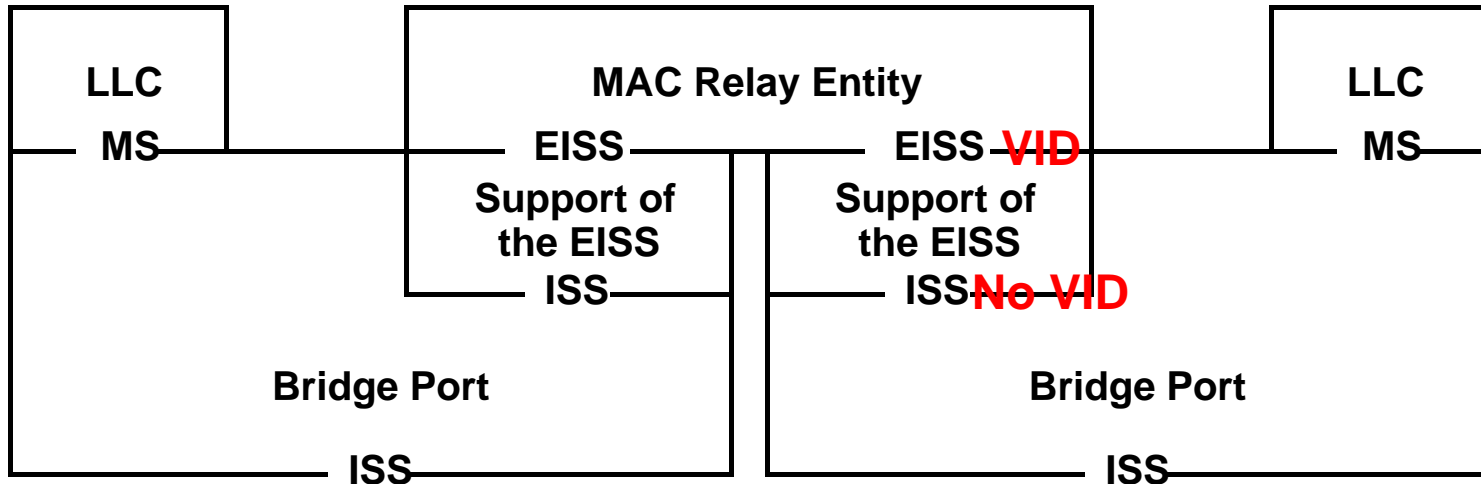


# Support of the EISS



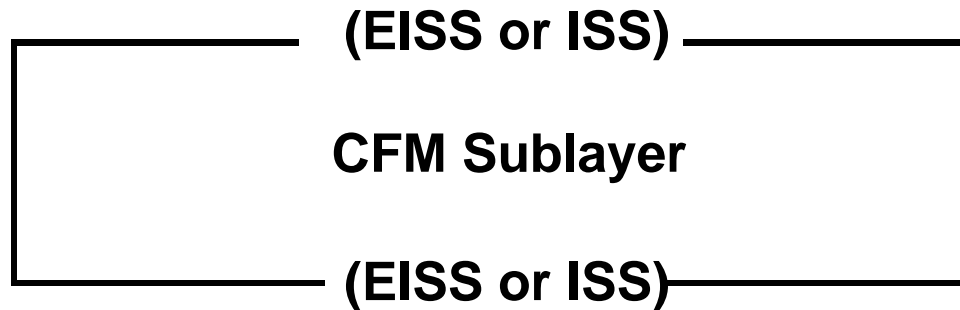
- **Figure 18-3 Current architecture**
- **EISS is a point entity that adds and removes the VID.**

# Support of the EISS



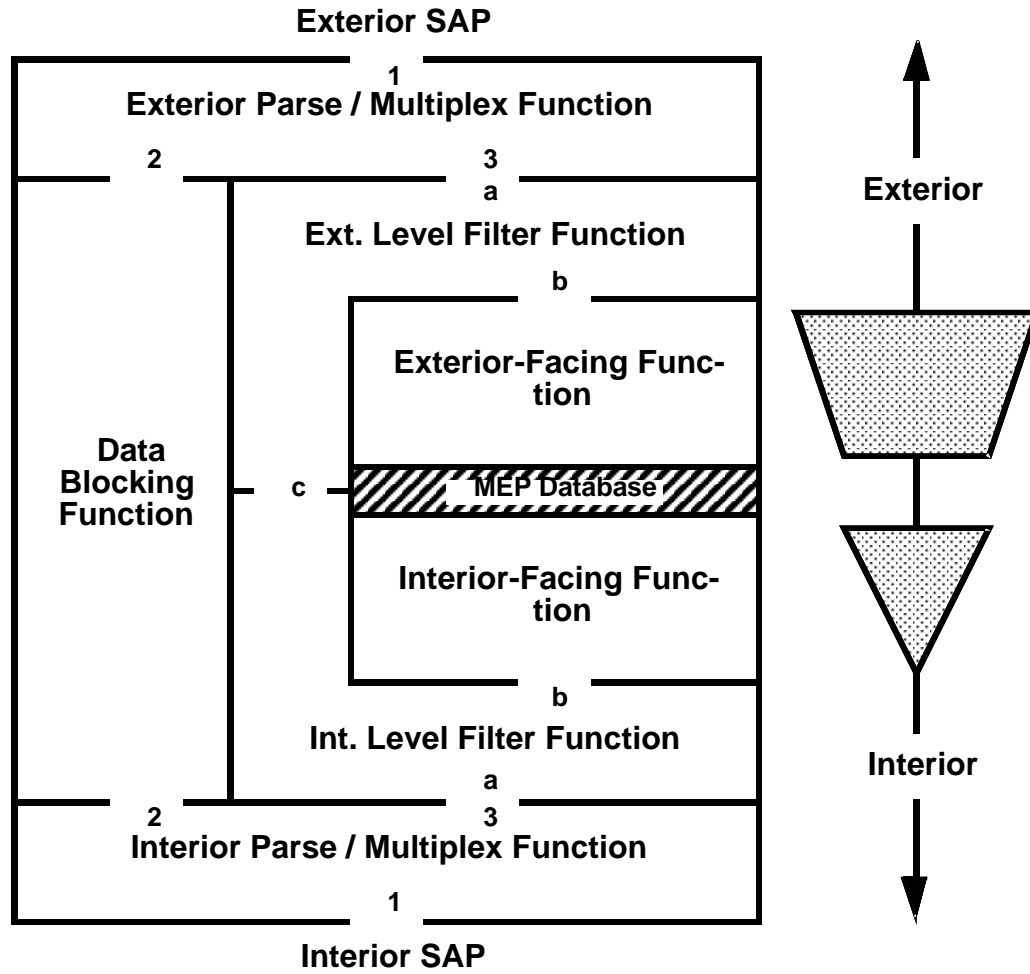
- **EISS and ISS are now a symmetrical interfaces, and thus “stackable”.**
- **Figure 18-4 Expand “Support of the EISS” to be a conversion shim.**

# Stackable Maintenance Point



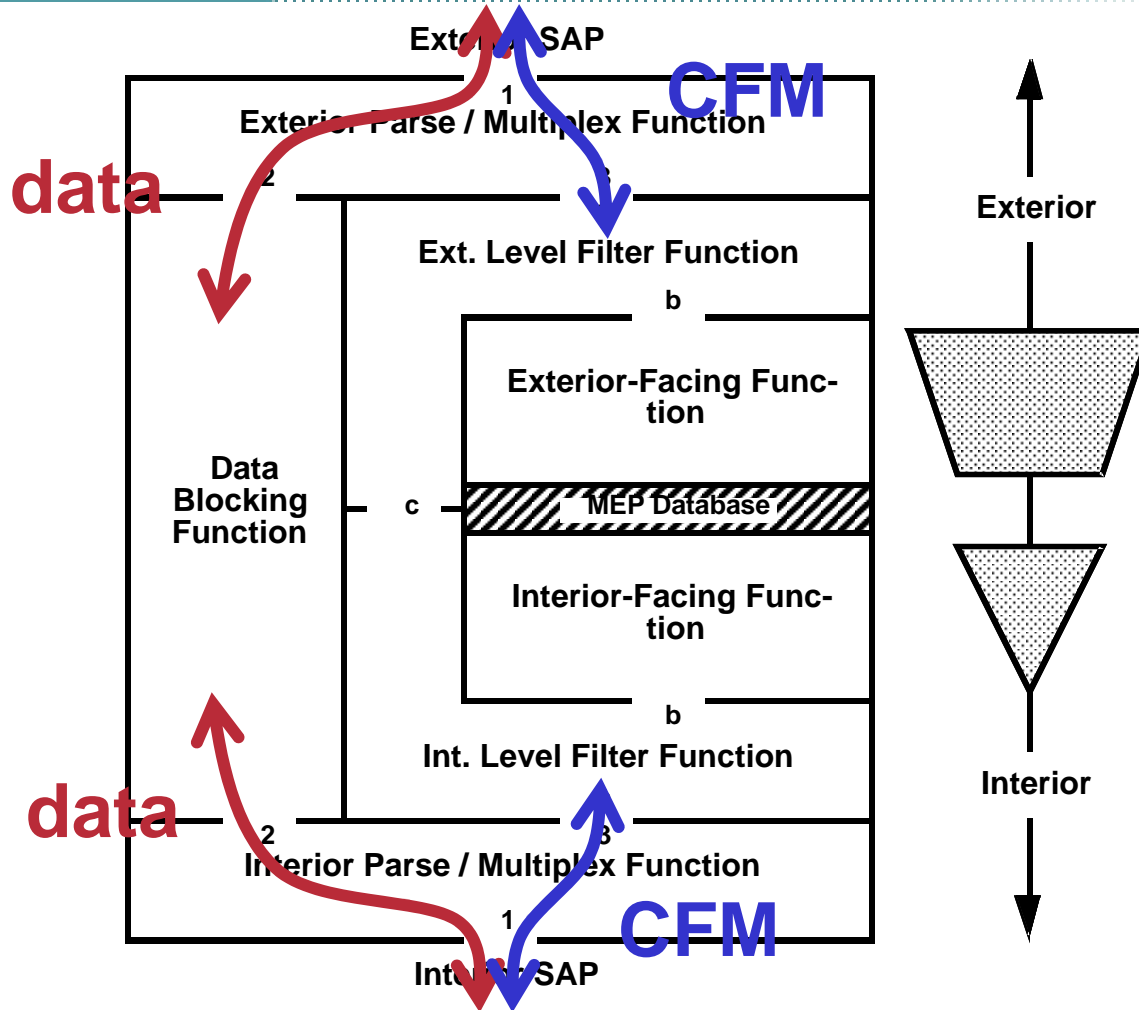
- **Figure 18-5 Maintenance Point (MEP or MIP)**

# Maintenance association End Point



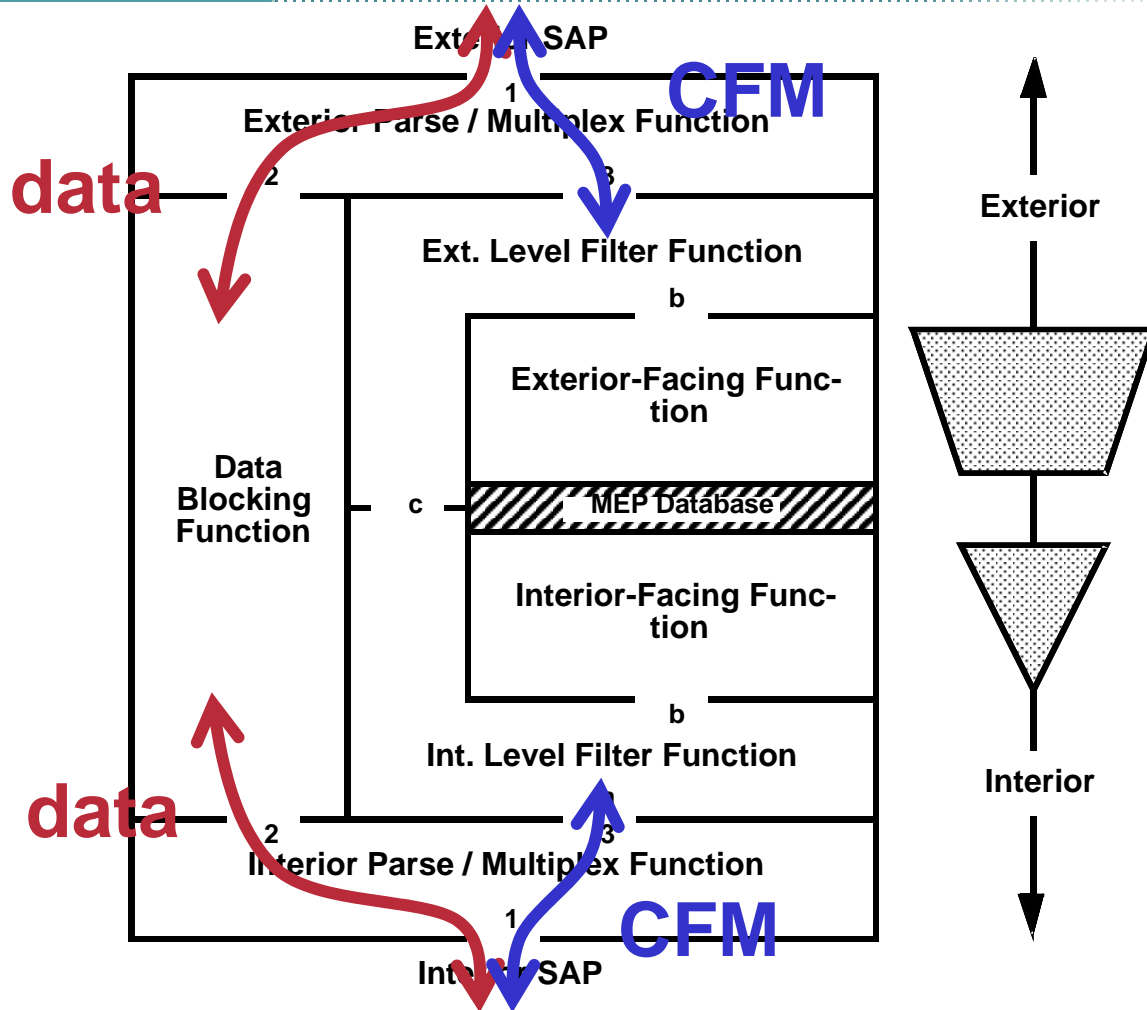
• **Figure 18-6 MEP structure**

# MEP/MIP Parse / Multiplex Function



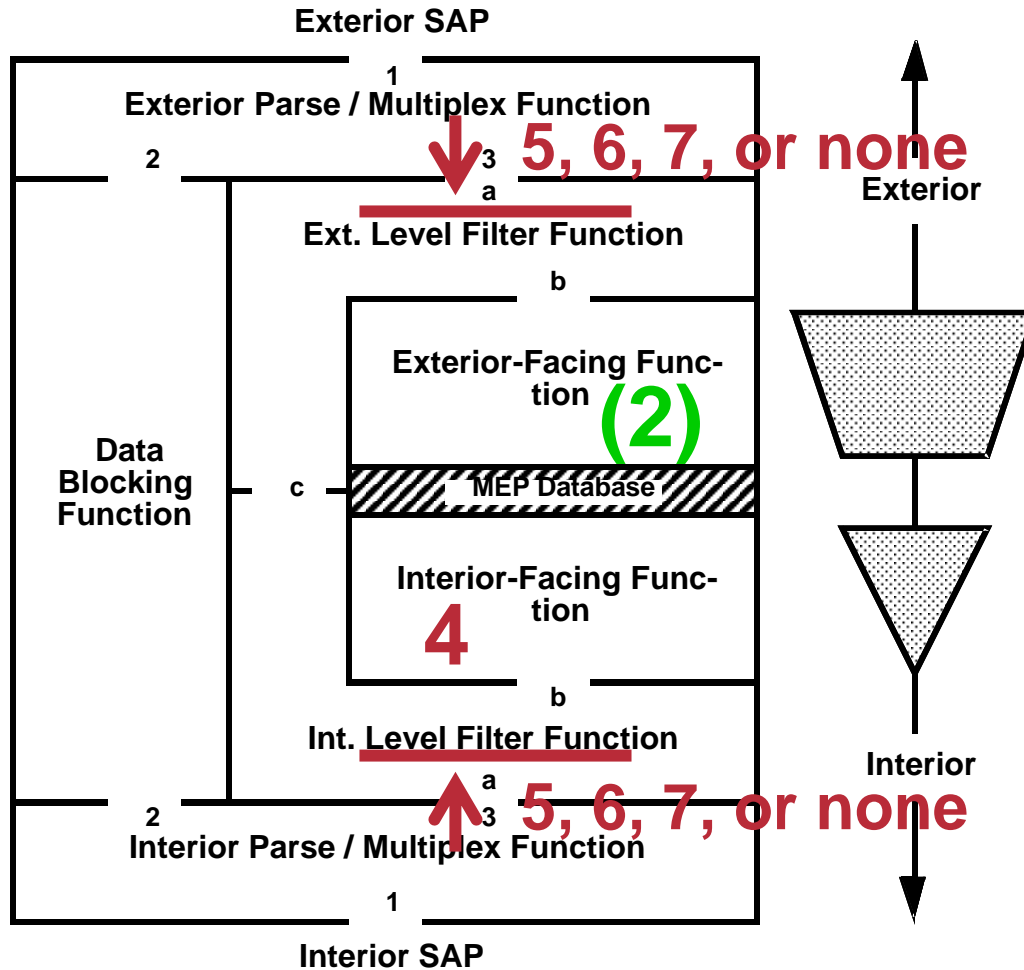
- Separates data from CFM Messages

# MEP/MIP Parse / Multiplex Function



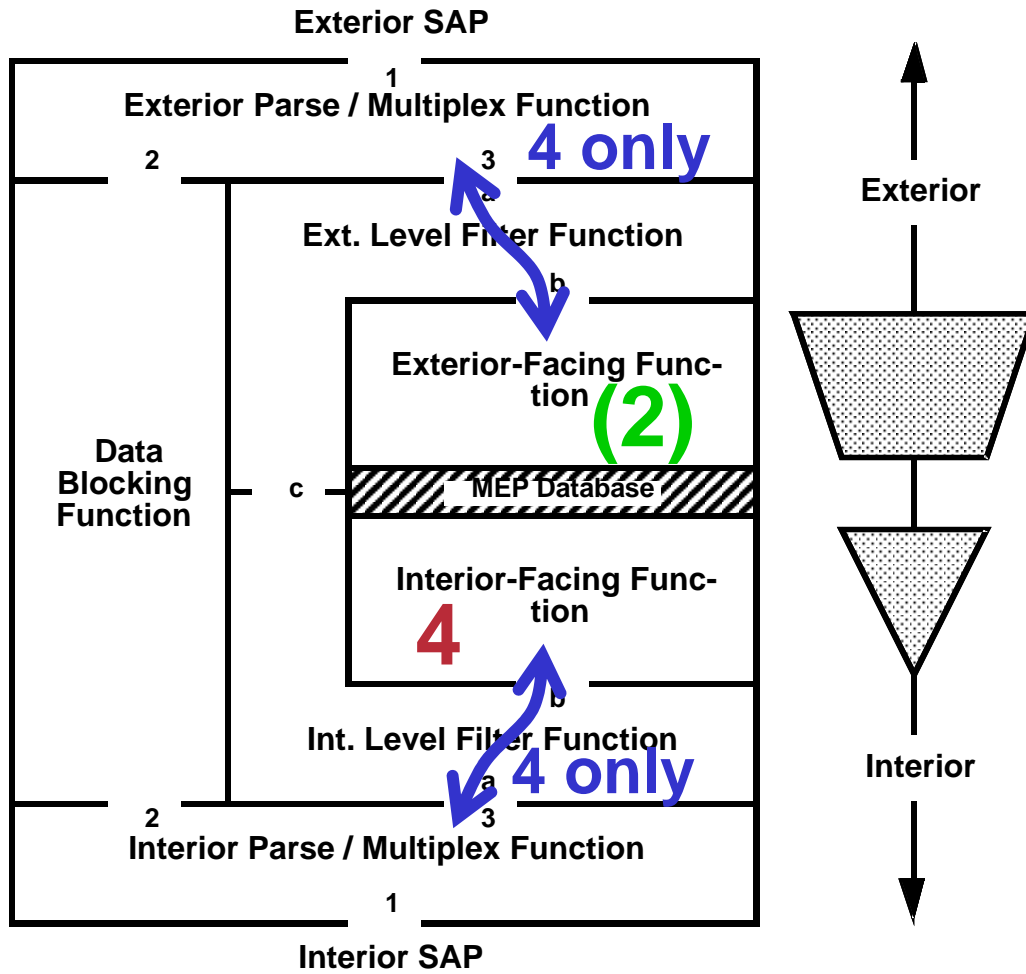
- **Switch/multiplex, not replicate.**

# MEP/MIP Level Filter Function



- **Block MA Levels inferior to IFF.**

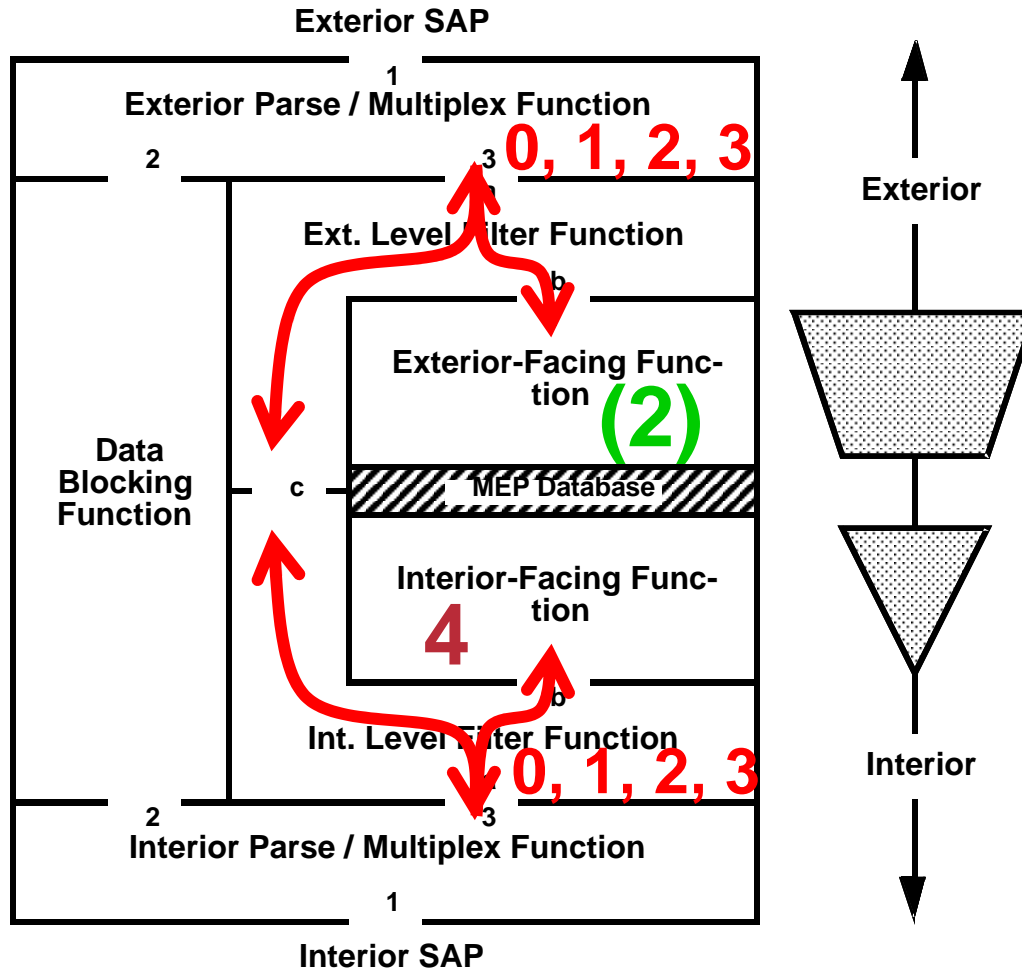
# MEP/MIP Level Filter Function



- **Switch MA Levels equal to IFF.**

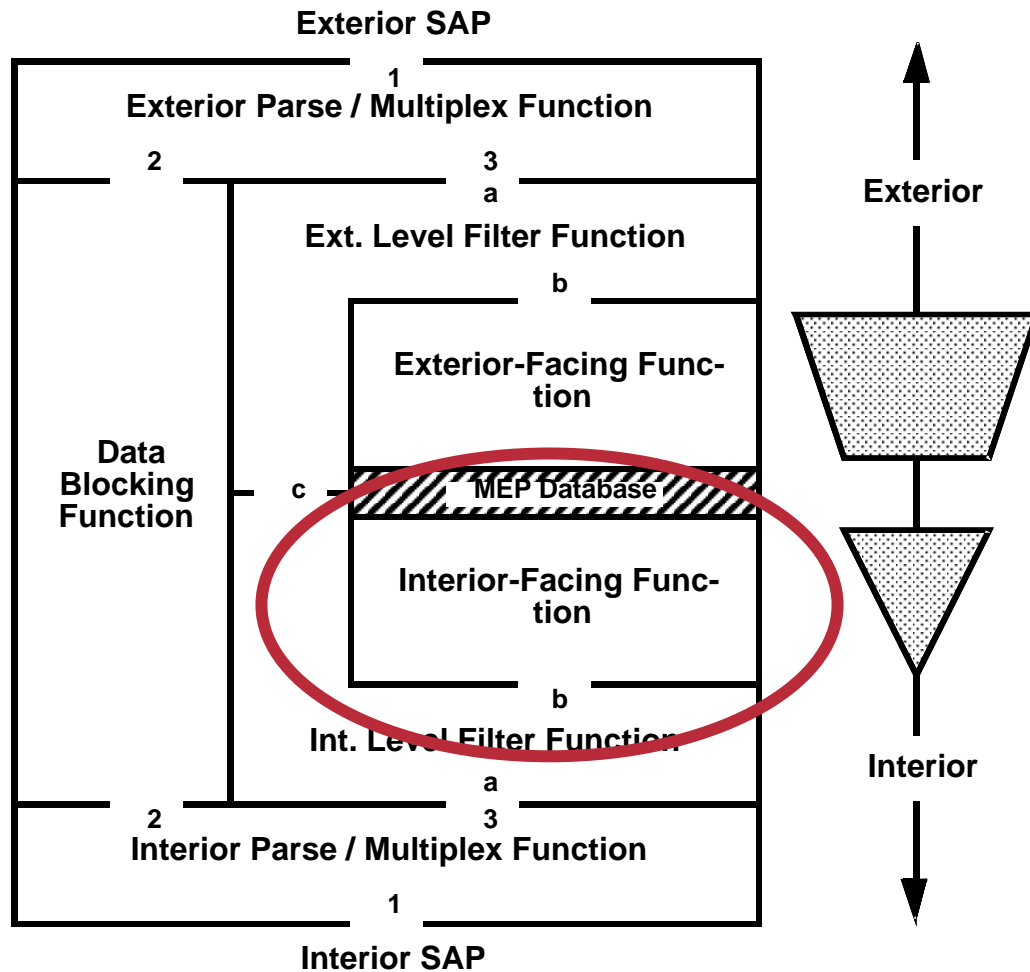


# MEP/MIP Level Filter Function



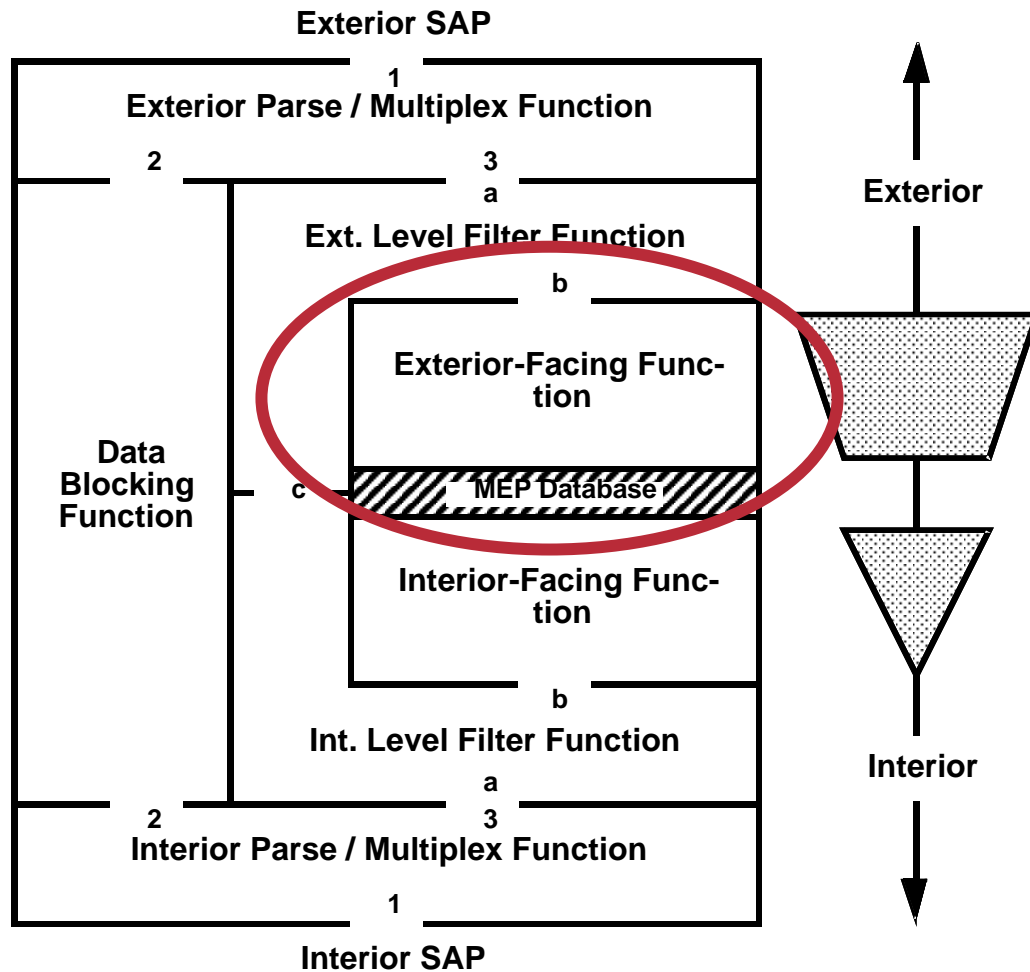
- **Replicate MA Levels superior to IFF.**

# MEP Interior-Facing Function



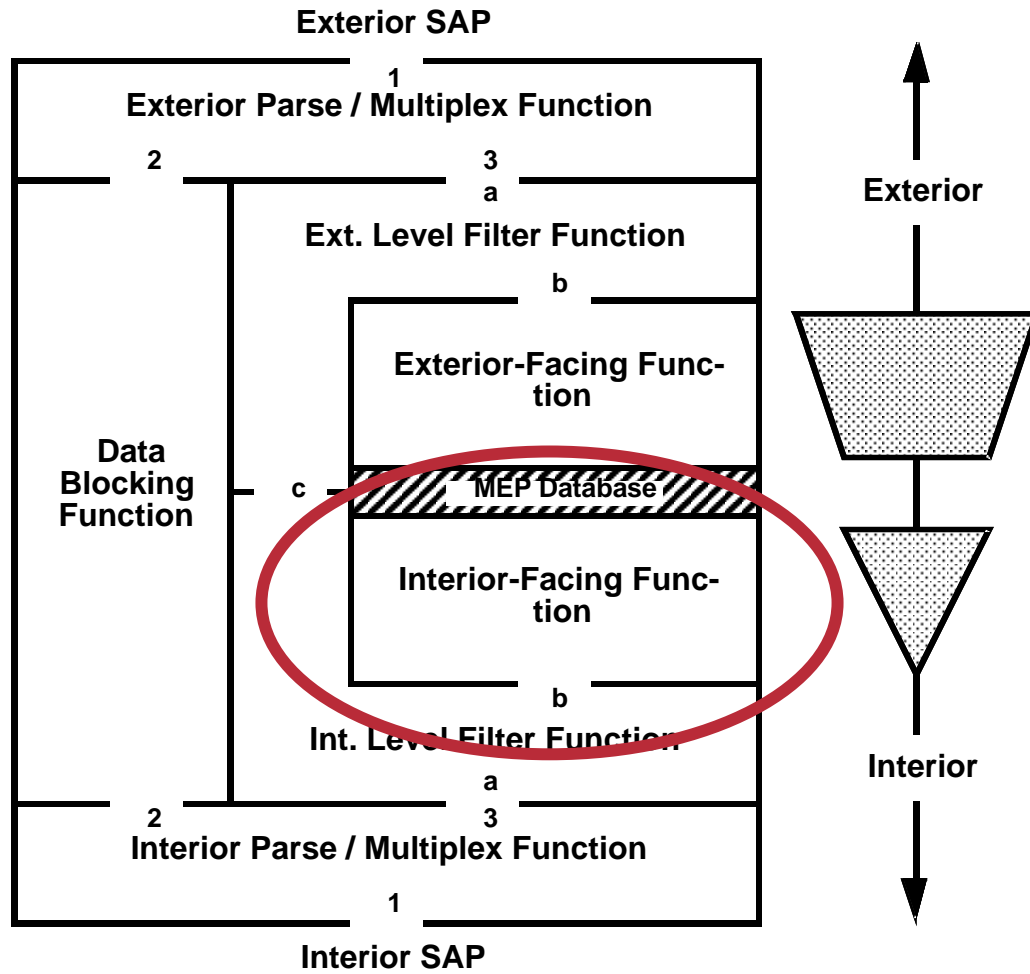
- **Do CCM, LBM, LBR, LTM, LTR; receive AIS.**

# MEP Exterior-Facing Function



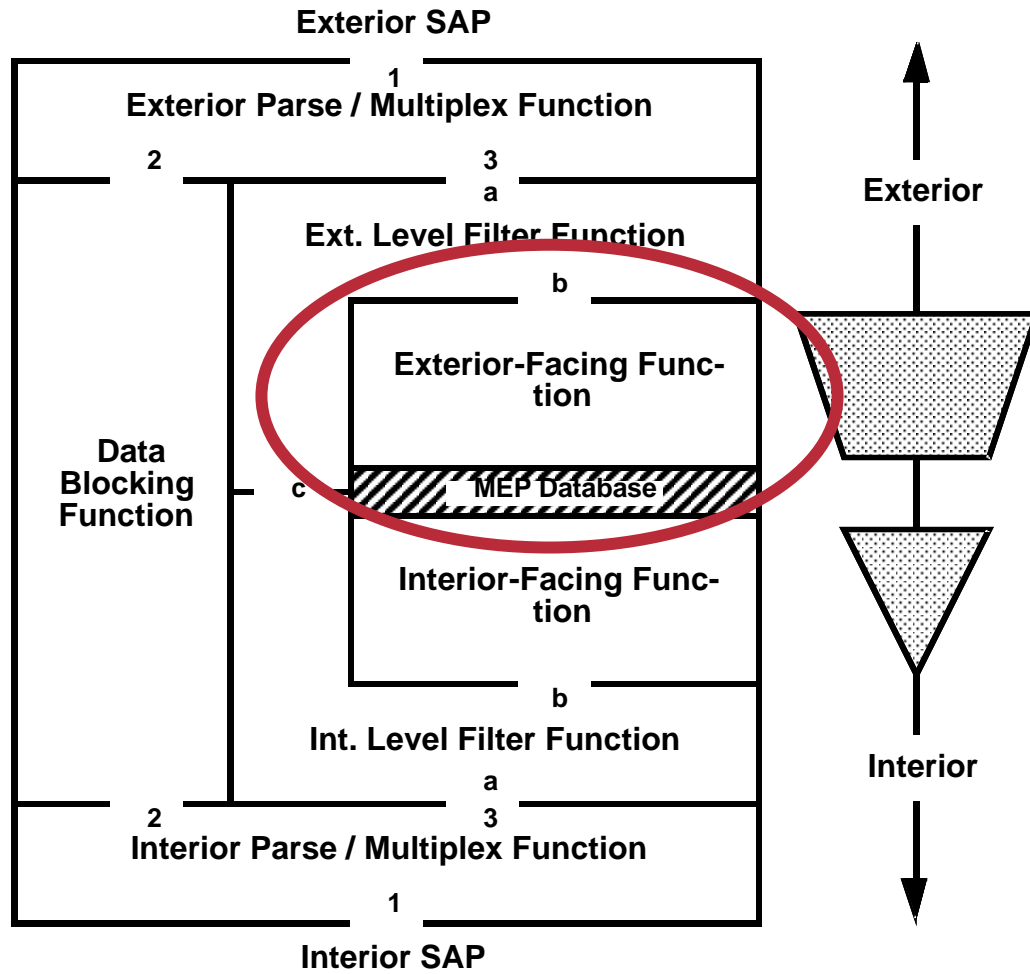
- **Monitor CCM, AIS; transmit AIS.**

# MEP Interior-Facing Function



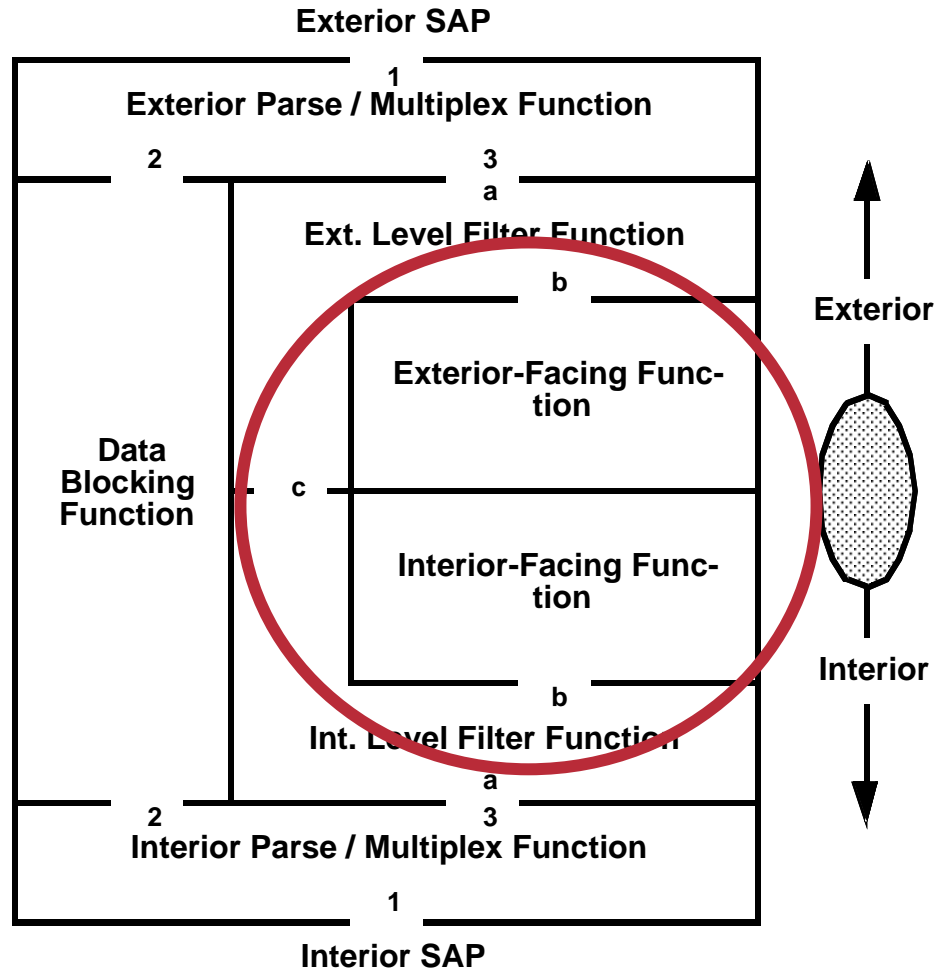
- **IFF may be replaced by inferior layer functions.**

# MEP Exterior-Facing Function



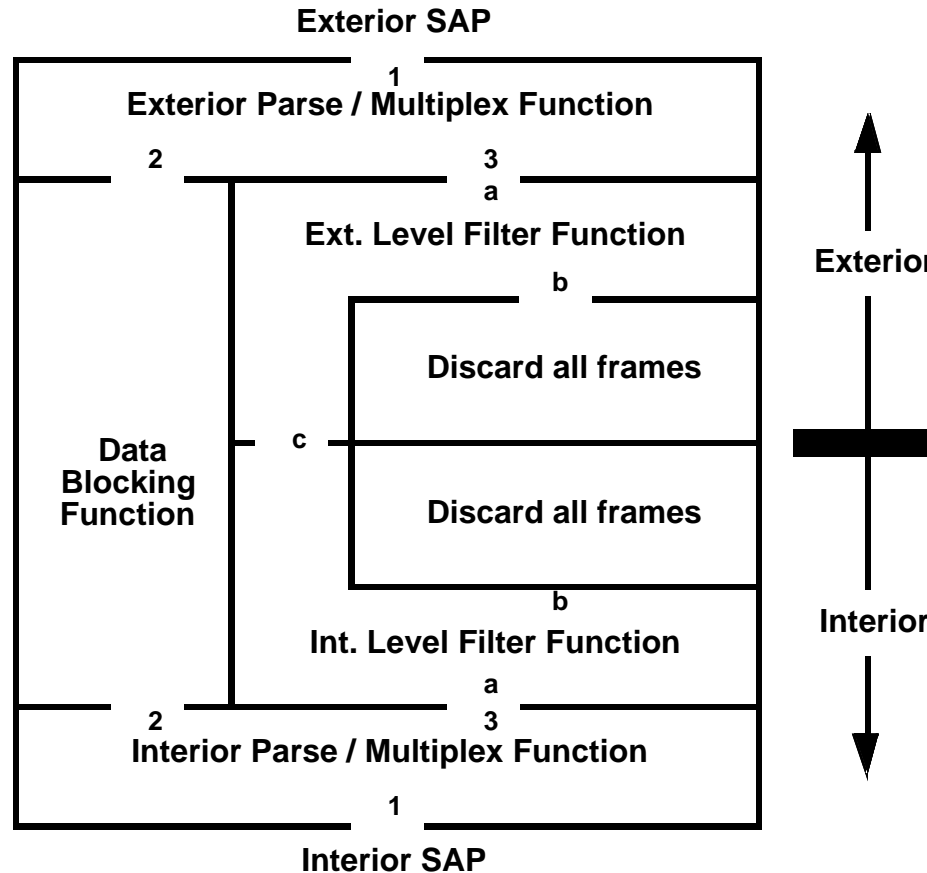
- **EFF not present if no AIS.**

# Both EFF and IFF (MIP)



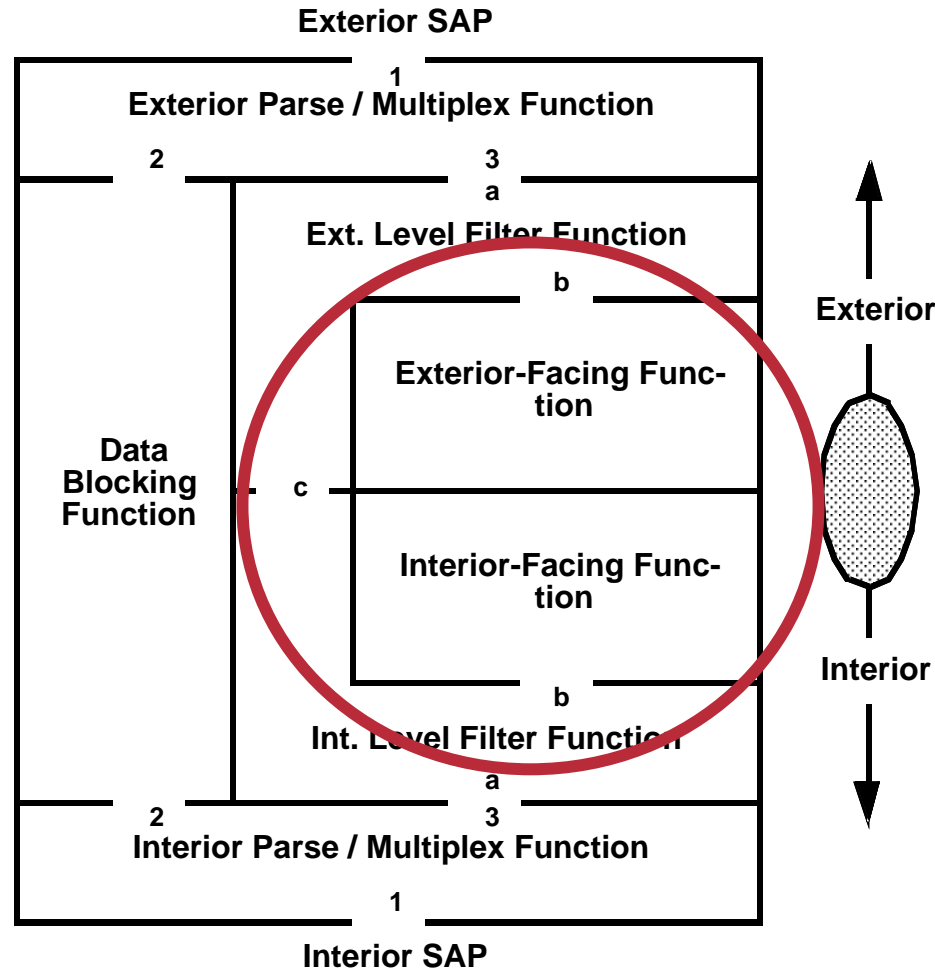
- **Respond to LBM, LTM.**

# CFM Filter Function (CFF)



- **Block all CFM Messages, and perhaps data.**

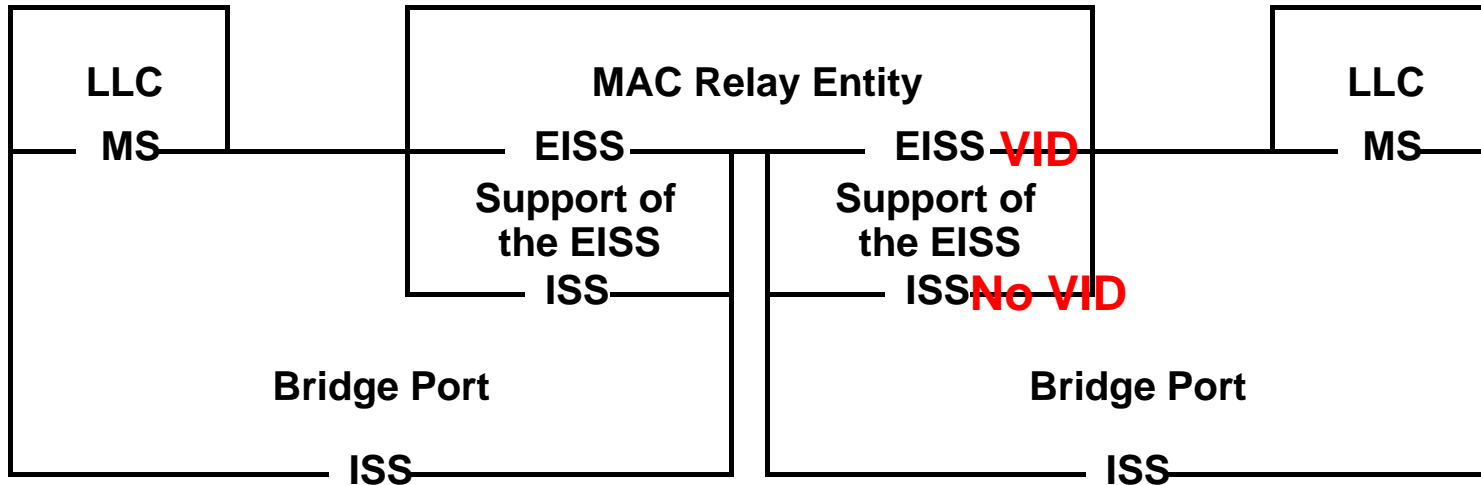
# CFM Message Filter has no MIP Function



- Respond to LBM, LTM.

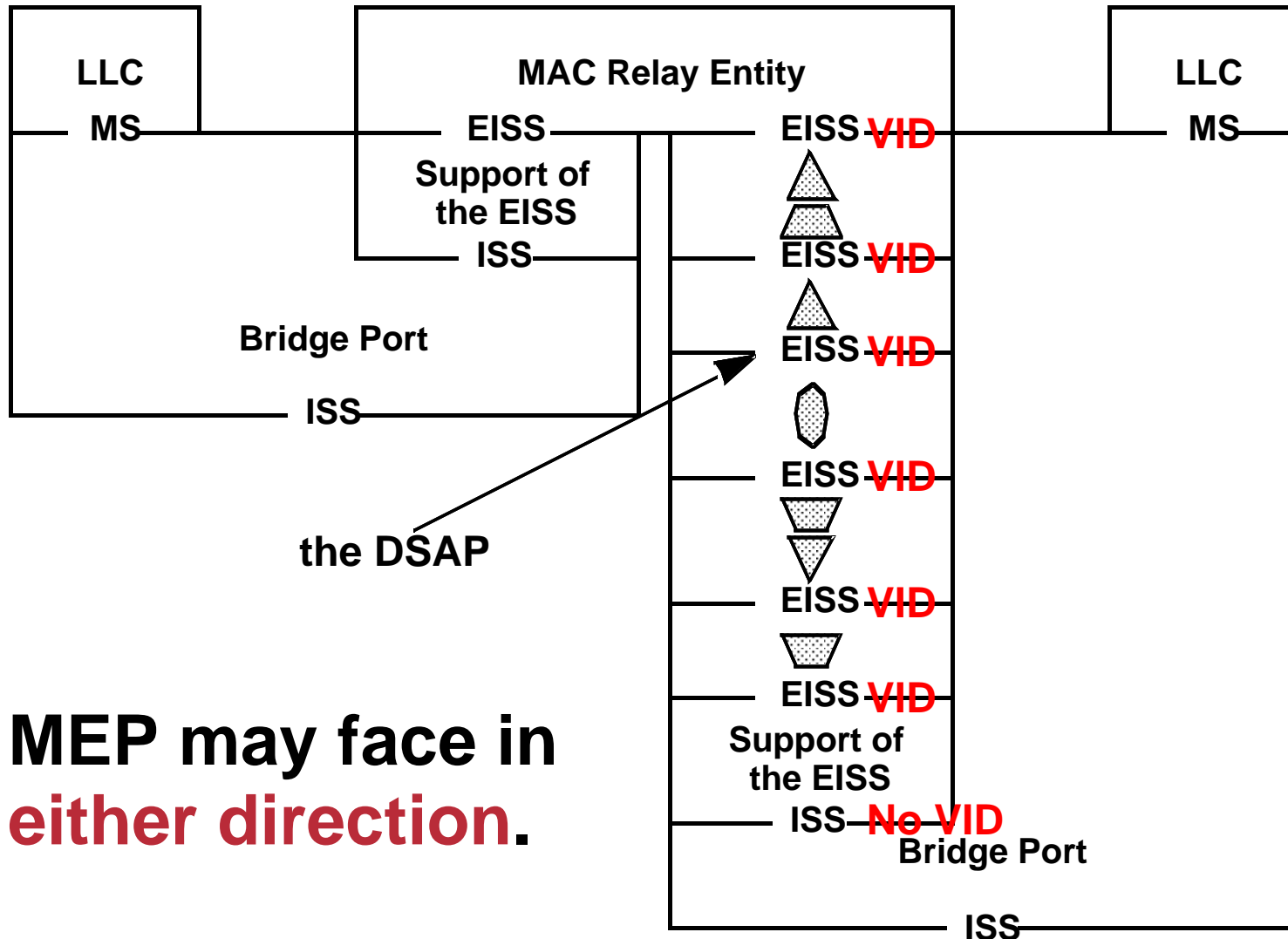


# Support of the EISS



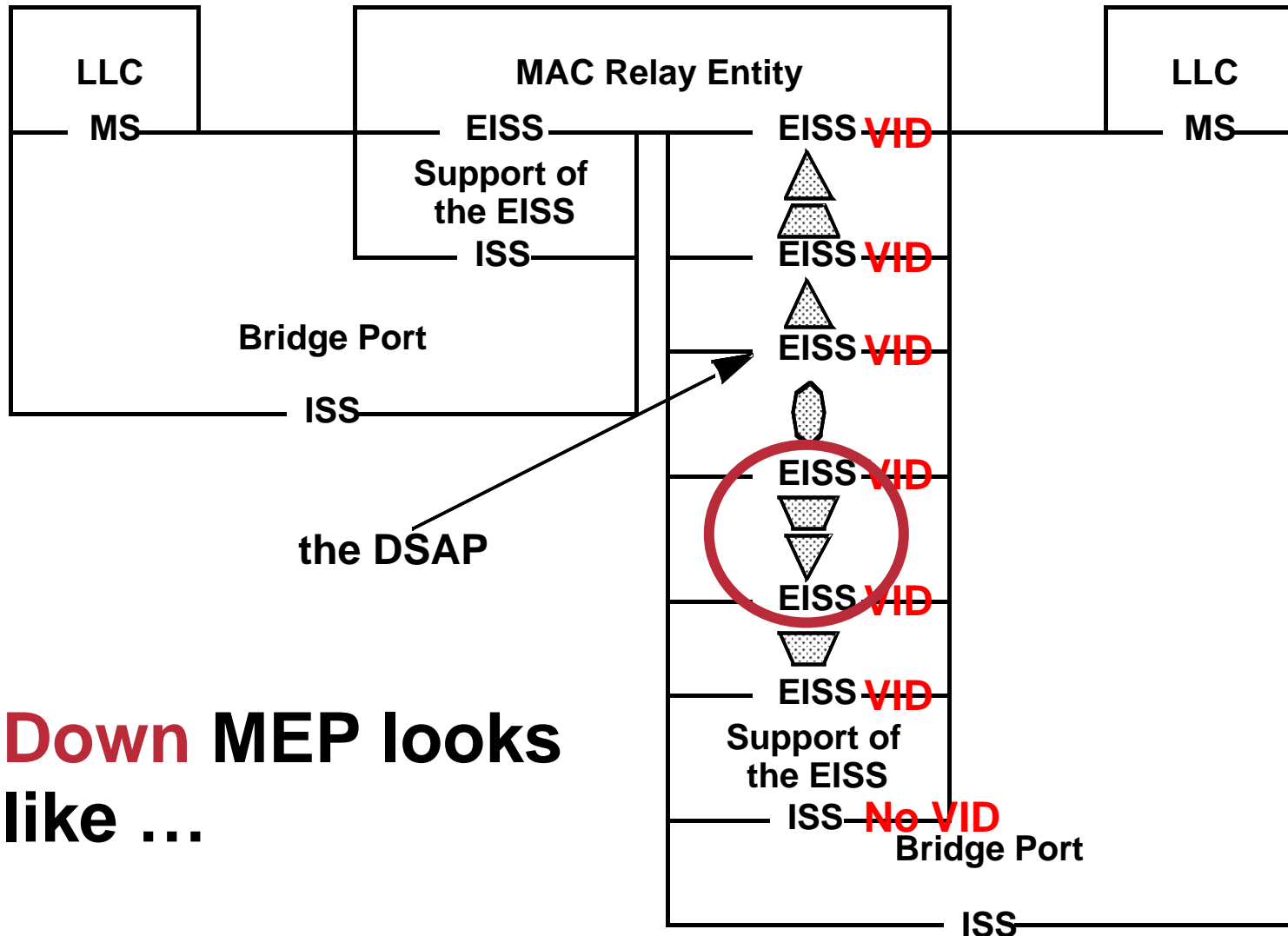
- **CFM Sublayer may be inserted either above or below the “Support of the EISS” Sublayer.**
- **For that matter, it may be inserted below the Bridge Port.**

# Exterior-Facing Function (MEP)



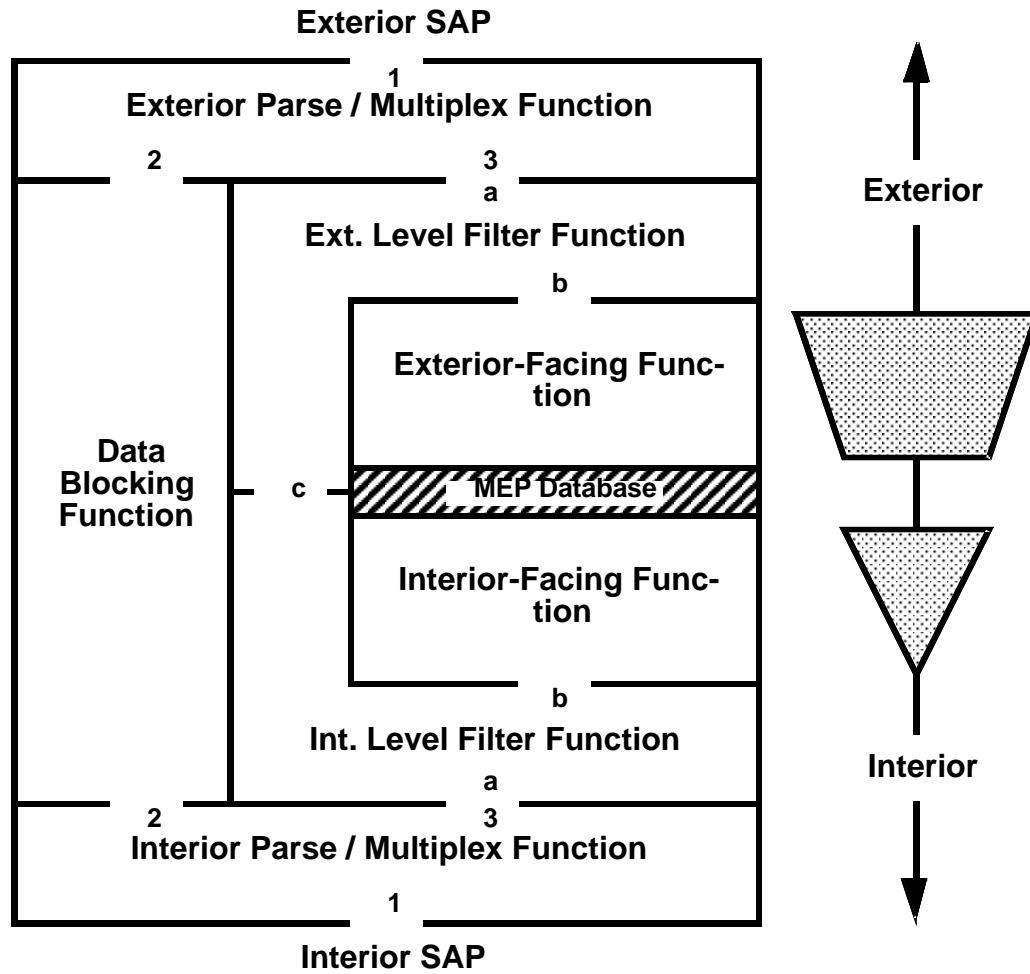
- **MEP may face in either direction.**

# Exterior-Facing Function (MEP)



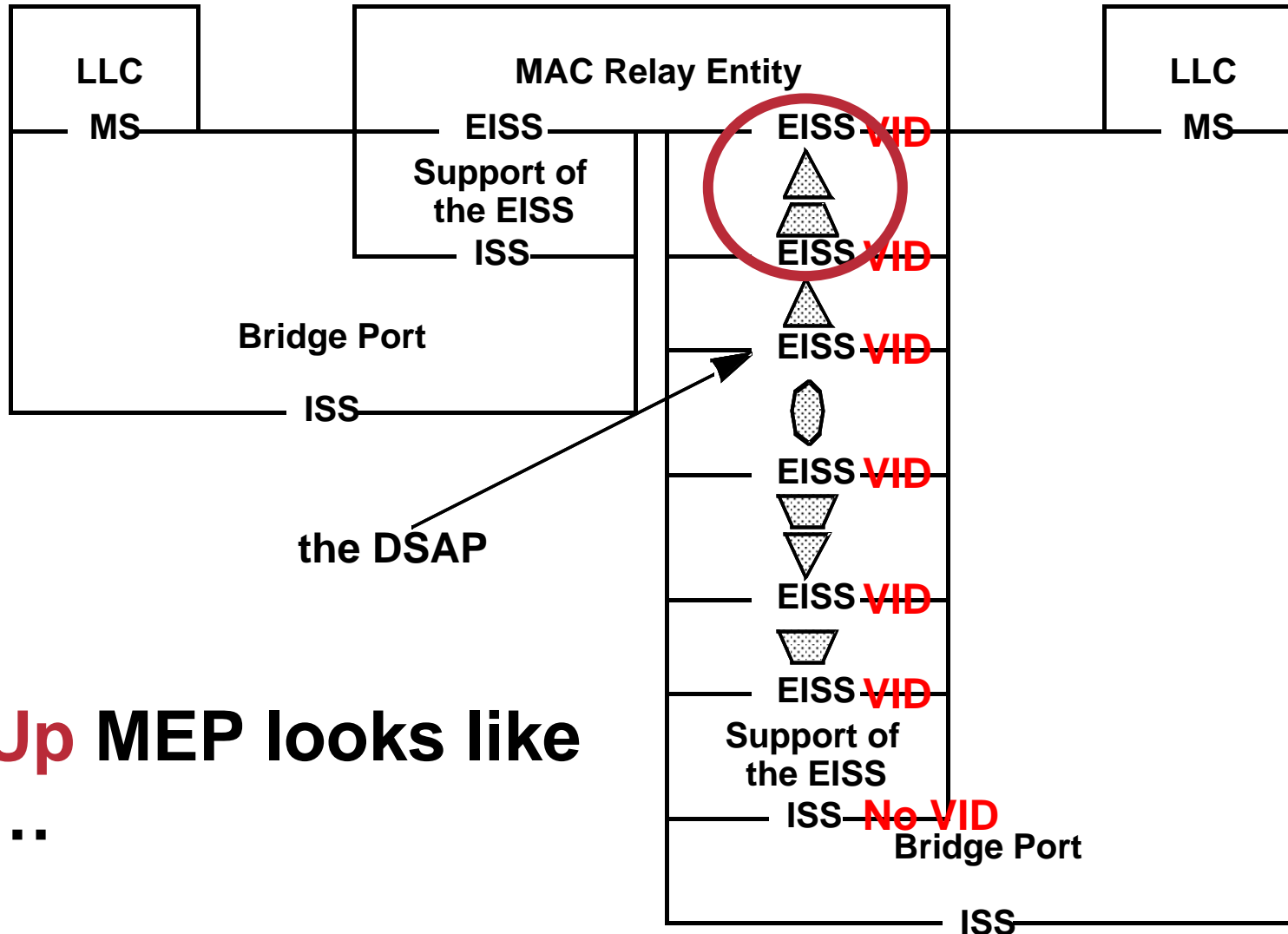
- **Down MEP looks like ...**

# MEP can face either way



- **“Down” MEP: Domain interior is outside bridge.**

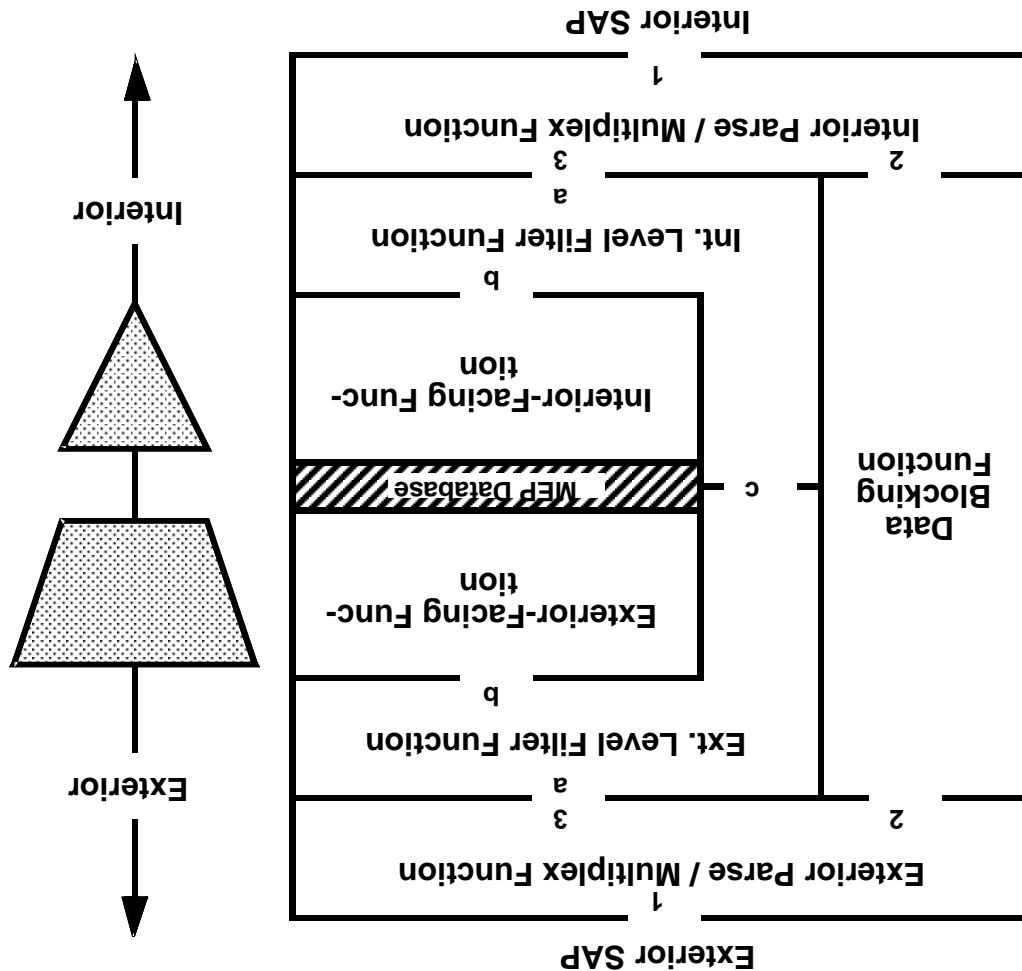
# Exterior-Facing Function (MEP)



- **Up MEP looks like**

...

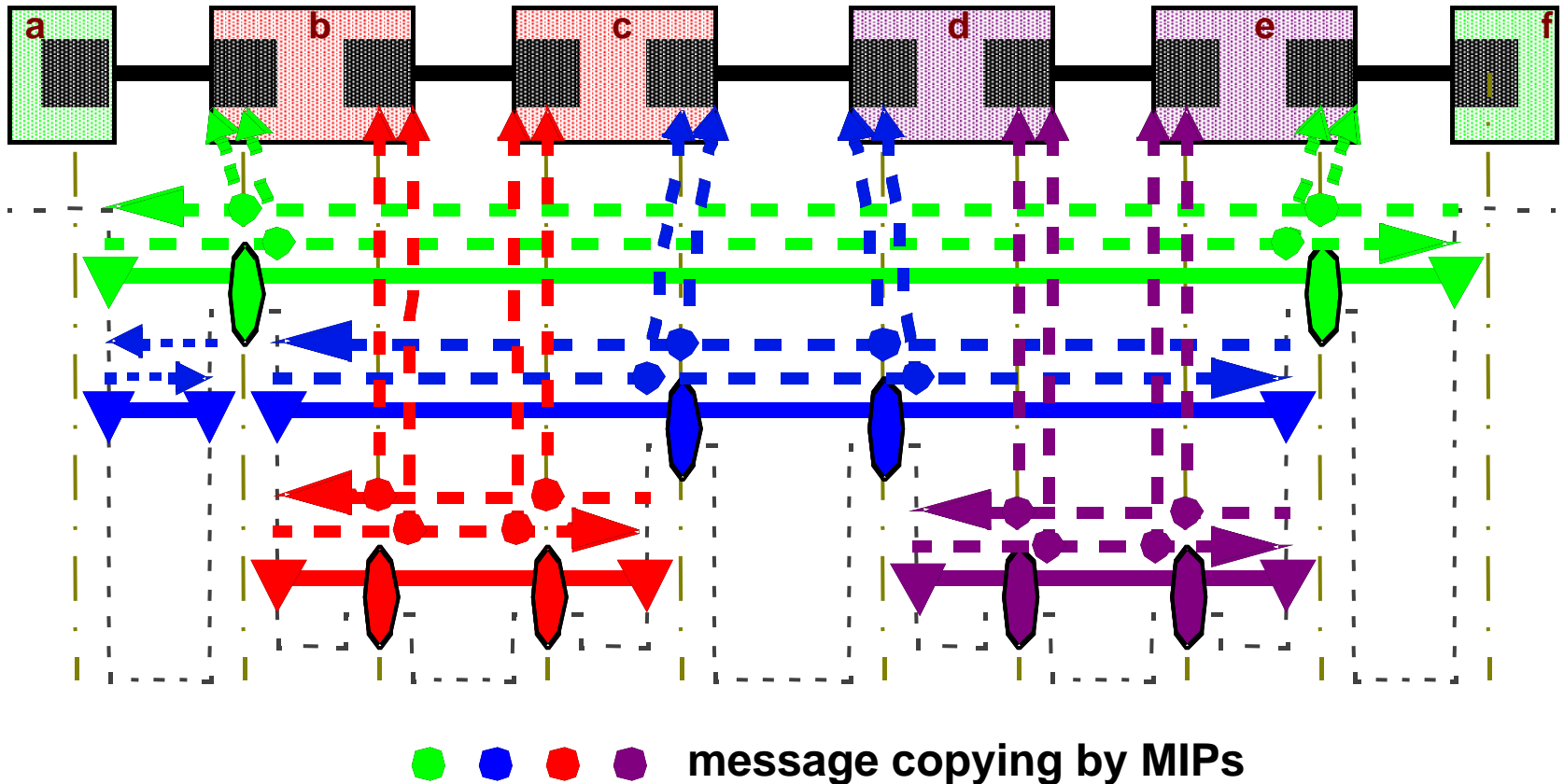
# MEP can face either way



- **“Up” MEP: Domain interior is inside bridge.**

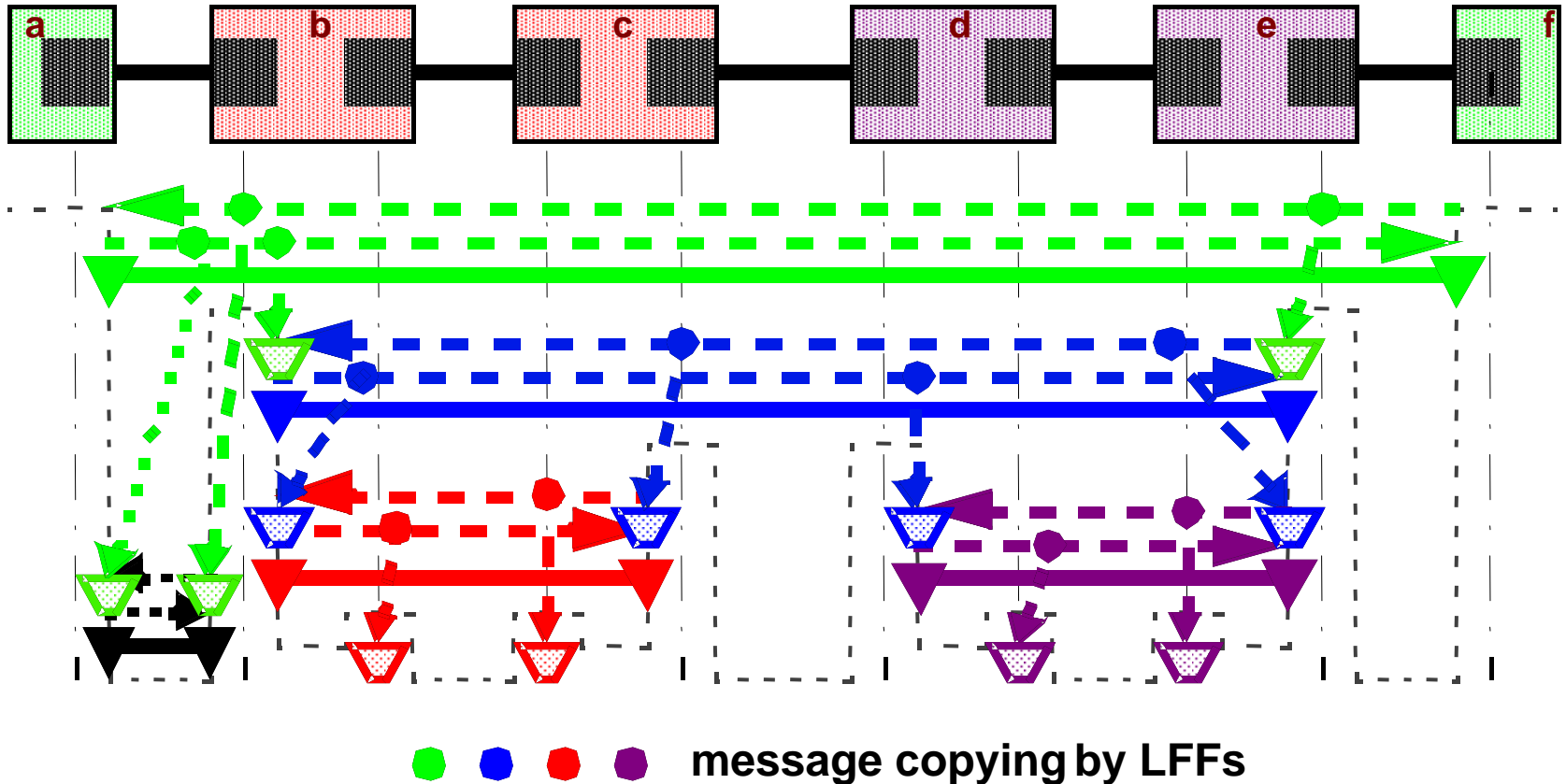
# Continuity Check Message copying

Cisco.com



- **OLD diagram: MIPs are important**

# Continuity Check Message copying



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



# CISCO SYSTEMS

