



Management Attributes for DTE power

- 1.) Power Capabilities
 - PSE
 - PD
- 2.) Power Control (PSE)
 - enable
 - disable
- 3.) PSE Power Status (PSE)
 - Fault
 - Sourcing
 - Off
 - (state machine status)



Management Attributes for DTE power

- 4.) Discovery Control (PSE)
 - enable
 - disable
- 5.) Discovery state (PSE)
 - searching
 - discovered
 - (reflects state of discovery state machine)
- 6.) Power Capability (PSE)
 - upper limit of power that can be supplied by PSE



Management Attributes for DTE power

- 7.) Link Partner Power (PSE)
 - Quantised value representing max pwr requirements of link partner PD
 - Needs to be explicitly associated with a port so information needs to be exchanged at PHY layer implies autonegotiation / Next page exchange ? - need to find out if there is a reserved Next page field we could use.



Management Attributes for DTE power

- Link Power Status (PD)
 - sinking (taking power)
 - standby
 - Off
- Priority Device (PD?)
 - High (eg Backup IP phones)
 - normal
 - (allows eg phones that need to be on in event of power cut to be identified by PSE so that these always receive priority when provisioning power)

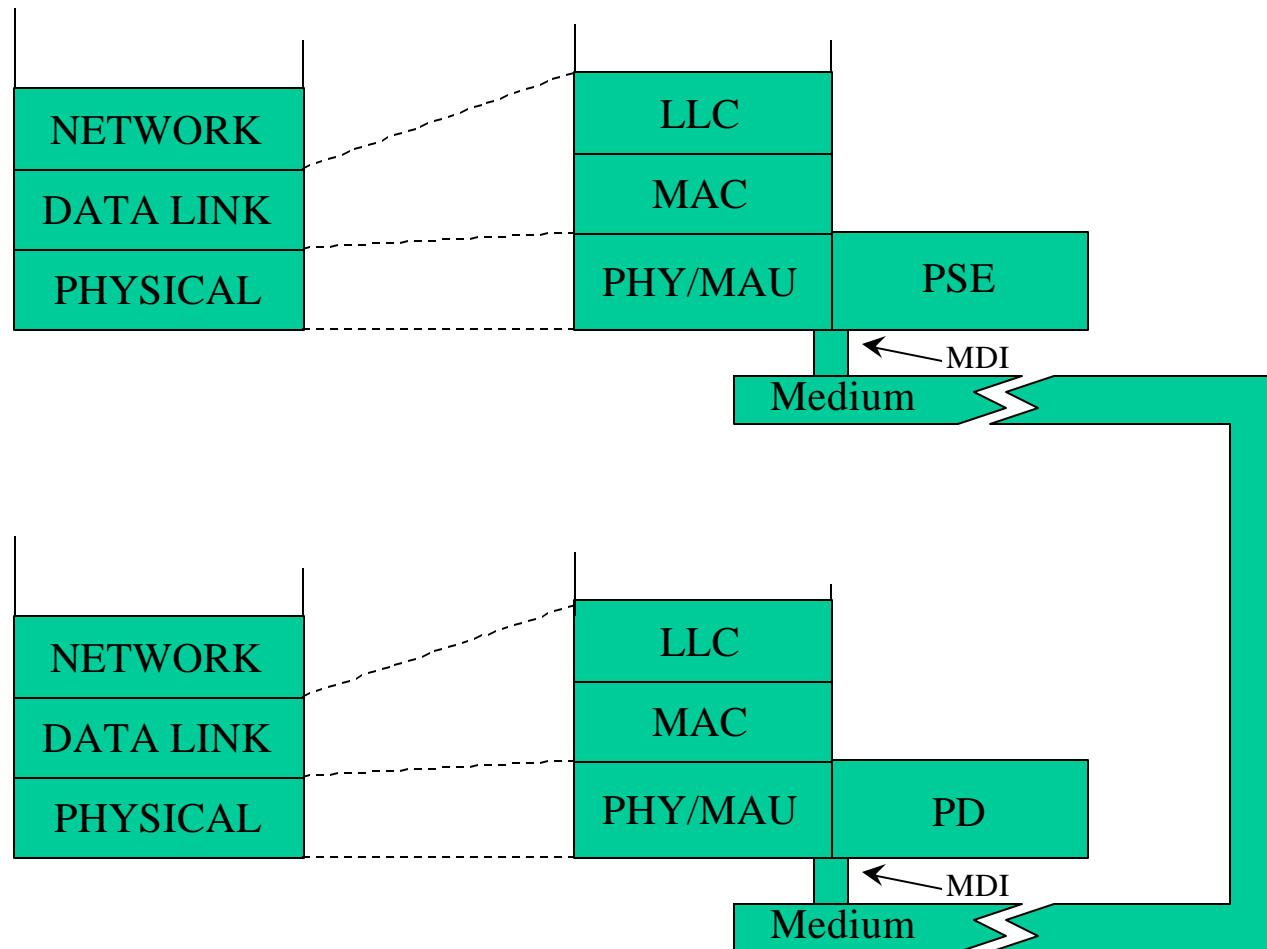


Containment

- Containment Diagram for management in section 30.2.3
 - For DTE power it appears a 3rd tree would be required to sit alongside the Repeater, and MACControlEntity
 - Management entities will be needed for port, group, and unit?
 - Unit - collection of groups - eg a chasis, a stack, etc
 - Group - a collection of ports, and a sub - element of a unit - eg a port card for a chasis, a stackable Hub / switch, etc
 - Port - need I say more ?



Layer model





Layer model - Midspan

