

# Proposed objectives for the DTE Power via the MDI SG

- (1) Economically provide power to 10BASE-T and 100BASE-TX devices, and consider powering 1000BASE-T
- (2) Select one power distribution technique for world-wide use
- (3) Not cause damage and interoperate with compliant RJ-45 MDI Ethernet devices including:
  - a. Switch-to-switch connections (both supplying power)
  - b. Cross-over cables
  - c. Common mode termination implementations
  - d. Shorted conductors, pairs or loop-back plug
- (4) Define a capability detection function that works with a powered and an unpowered device
- (5) Select the voltage, minimum and maximum current and wattage to be supplied
- (6) Add appropriate management objects for power capability and status
- (7) Support current standard, 4-pair, horizontal cabling infrastructure for installed Cat 3 and Cat 5 cabling
- (8) Preserve the signal transmission and isolation characteristics of existing equipment and cabling
- (9) Consider mid-span power insertion, powering over the signal pairs, and interaction with other RJ-45 interfaces: Token Ring, ATM, FDDI TP-PMD, 1000BASE-T, ISDN, networking test equipment, PBX

Move to present the current state of the objectives in progress to 802.3 at the November opening plenary, indicating that a set of Study Group approved objectives will be submitted to 802.3 when the DTE Power via the MDI PAR is considered for approval.

Moved: Bob Bell Seconded: Bob Grow

Procedural

Y: 28 N: 0 A: 0 (by acclamation)