

DTE Power over MDI: Building Consensus

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Objectives:

- I am not going to re-present all of the proposals for the a power over the MDI
- I will focus on the proposals that have occurred within t concerning which pairs to apply power over: the signal p IDLE pairs.
- Benefits of each
- Drawbacks of each
- Consensus on the path where there is the greatest comm
- Is this possible?

Power over MDI:

- Objectives to be considered from 11/99:
 - (1) Economically provide power over a twisted- pair link segment to a s device.
 - To be included:
 - 10BASE-T,
 - 100BASE-TX.
 - To be considered:
 - 1000BASE-T.
 - (2) Select one power distribution technique for world wide use
 - (3) Not cause damage and inter-operate with compliant RJ- 45 MDI Ethl 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 Support current standard, 4 cabling infrastructure for installed Cat 3 and Cat 5 cabling

Power over MDI:

- Objectives to be considered from 11/99 (cont.):
 - (4) Define a capability detection function that works with a powered powered device
 - (6) Add appropriate management objects for power capability and
 - (7) Support current standard, 4- pair, horizontal cabling infrastructure Cat 3 and Cat 5 cabling
 - (8) Preserve the signal transmission and isolation characteristics of equipment and cabling
 - (9) Maintain normal functionality of Link Integrity Test function in l devices

Power over MDI:

- Motions to be considered:

- (1) Without specifying the two and only two pairs to be utilized for DTE power shall utilize two pair powering where each wire in the pair is a potential and the power supply potential is between the two pairs selected.

Moved: Michael McCormack Second: Henry Hinrichs

Yes: 23 Opposed: 4 Abstains: 3, Total attendance: 33, January 21, 2014

- (2) Regardless of the detection scheme adopted and the power feed scheme, power detection and the power feed shall operate on the same set of pairs.

Moved: Michael McCormack Second: Dave Richkas

Yes: 31 Opposed: 0 Abstaining: 1, Total Attendance 33, January 21, 2014

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