

## DTE Power via MDI: System Requirements

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**Network Edge** 



### Strict Requirements

# A solution for DTE Powering via DTE <u>must</u> sati following conditions:

- It will meet all applicable safety standards and regulation
- It will meet all of the requirements of existing 802.3 Ethesian standards.
- Its operation will not degrade in any way the performan Ethernet data transmission.
- → It will not damage, or be damaged by, or have its operaded degraded, or be degraded by, any other RJ-45 or RJ-11 interconnected equipment to which it may be incidenta connected.
- It will not cause any anomalous behavior or change the operation for any connected LAN equipment (e.g. link s indicators).



### **Desirable Requirements**

## A DTE Powering solution <u>should</u> satisfy the fol conditions:

- → It should be able to provide sufficient power to support range of single IP terminal devices (e.g. IP telephones, LAN base-stations, cameras, hubs, power controls, the etc.)
- The powering topology should allow for the easy insert power at any point along the span.
- The power source equipment should support a MIB for system management (including any backup power syst



### **Power Source Attributes**

# To satisfy the previous conditions the following power source characteristics are proposed:

- An isolated DC voltage source meeting all applicable w regulatory safety requirements;
- Metallic power feed on Pins 4-5, one of the idle pairs of BASE-T LAN loop;
- → Each loop power feed isolated to withstand ±2250 Volts 1500 Volts AC for 60 sec. (IEC 60950:1991 "Hipot");
- → The power source to each loop must be independently limited to a level to be determined above the level of the rated output.
- All protection circuitry for the loop power feed must recautomatically without any operator intervention once the been removed.



## **Power Source Attributes (continued)**

# To satisfy the previous conditions the following power source characteristics are proposed:

- The loop supply must be "smart," using a discovery me insure that power is only provided to authorized termin
- The source must provide a maintenance capability to m supply power only as long as the loop connection rema
- The source must limit the power to any non-authentical loads to protect against damage;
- At the point of power insertion, appropriate termination presented to the network side of the LAN connection.



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