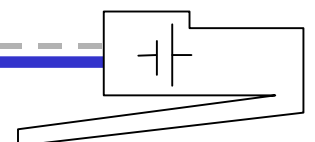# DTE Power via MDI Task Force

Plenary Meeting Closing Report
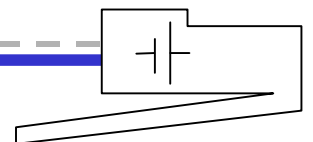## July 2000
La Jolla, CA

Steve Carlson, TF Chair

DTE Power via MDI Study Group

Objectives for this Meeting

- **Reduce discovery methods to two**
- **Analyze data on mid-span, create issues list**
- **Analyze data on power on signal pairs, create issues list**
- **Examine 1st. Draft**
- **Re-visit voltage and current in light of new information from ISO/IEC**
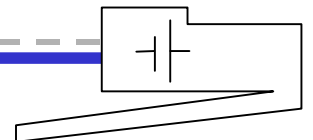
DTE Power via MDI Study Group

Presentations

- **"Safety Considerations - Power Fault Protection", Lisa Leo, Raychem**

- **" Coupled Diode Discovery Protocols and Prototypes," Rick Brooks, Nortel**

- **"DTE Power via MDI Discovery Process," G. Vergnaud, R. Gass, R. Jaeger, Alcatel**
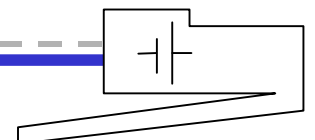
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Presentations

- **"Power on the 802.3 Connection", John Austerman, CMS Technologies**

- **"IEEE 802.3 DTE Power via MDI Resistive Detection and Signature Protocol Follow-Up," Robert Leonowich, et. al, Lucent**

- **"PowerDsine Follow-On," Amir Lehr, PowerDsine**

- **"Mid-Span Insertion and Generic Cabling Standards,", Bob Love, LAN Connect Consultants**

- **" Power DTE Mid-Span Cabling Implementation," Michel Bohbot, Nordx/CDT, Roger Karam, Cisco Moty Goldis, Lucent**

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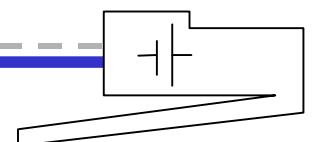
Presentations

- **"Power over Signal Pairs - Why is Cisco Pursuing?,"Chris Cullen, Cisco**

- **"Economic Feasibility of Power Over the Signal Pairs," Karl Nakamura, Cisco**

- **"Technical Feasibility of Providing Power Over the Signal Pairs," Roger Karam, Cisco**

- **"DTE Power for 1000BASE-T," Kevin Brown, Broadcom**

- **"Transformer Characteristics when Used in Mid-Span Applications", Henry Heinrichs, Pulse**

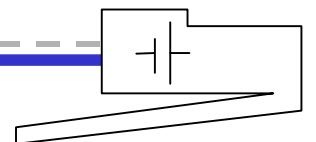- **"Hard Choices for Voltage," Mike McCormack, 3Com**

Presentations

- **"Hard Choices for Voltage,", Mike McCormack, 3Com**

- **"Powered Device Limits," Arlan Anderson, Nortel**

- **"Discovery Method Evaluations," Karl Nakamura, Cisco**

- **"Signal Pair Analysis: What Needs to be Done," Dan Dove, H-P**

Straw Polls

#1: Is 14 W maximum power level delivered to the DTE acceptable?

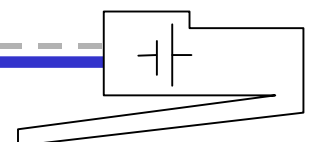M: Mike McCormack S: Don Pannell
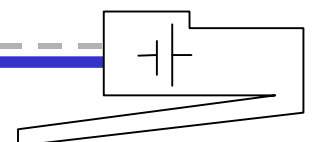
Technical - 75%

YES	NO	Abstain
51	0	No vote

All Voters

DTE Power via MDI Study Group

Straw Polls

#2: Discovery Proposals (Chicago Rules)

	Y	N	A
Resistor Detection - Lucent	39	2	17
Diode/Cap - Nortel	42	0	18
Big Cap - Alcatel	18	15	27
Serial Detect - CMS	7	0	23
Big Cap II - PowerDsine	24	0	34

DTE Power via MDI Study Group

Straw Polls

#3 Chose the <u>one</u> you like:

Resistor Detect - Lucent	19
Diode/Cap - Nortel	23
Big Cap - Alcatel	3
Big Cap II - PowerDsine	4

All Voters

DTE Power via MDI Study Group
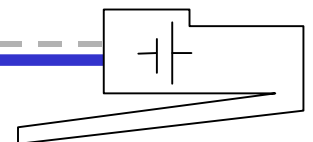
Straw Polls

#4 - Has economic viability of power over the signal pairs been demonstrated?

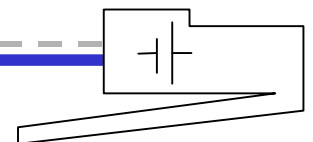| All	YES	NO	Abstain
	47	0	8
.3 voter	26	0	3

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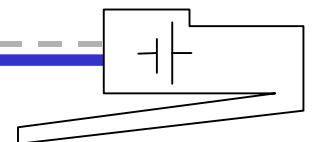
Straw Polls

#4 - Has technical feasibility of power over the signal pairs been demonstrated?

	YES	NO	Abstain
All	51	2	6
.3 voter	24	2	4

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Motions

Ottawa Motion : That we accept the powering of the DTE via either sets of wire pairs (1-2, 3-6 and 4-5, 7-8), in anticipation of the detailed technical and economic feasibility of each having been shown prior to the Working Group Ballot.
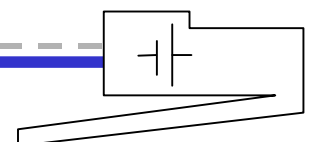
Moved: David Law

Second: Roger Karam

Technical: Yes 75%

Y: 32   N: 4   A: 3

Motion Carries

DTE Power via MDI Study Group

Motions

Motion: Move that the maximum continuous current draw at the PD end be no more than 350mA.
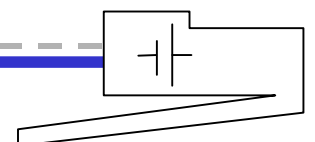
M: Mike McCormack

S: Don Pannell

Technical:75%

Yes	No	Abstain	
58	0	5	All
31	0	1	.3 voter

Motion Carries

DTE Power via MDI Study Group

Motions

Motion: Move that the 802.3af TF hold an interim meeting in Boston in the second week of September.

M: Robert Love   S: Karl Nakamura

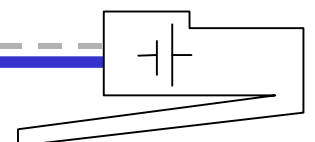Procedural - 50%

Yes	No	Abstain	
28	0	0	.3 voters

Motion Carries

DTE Power via MDI Study Group

Action Items

Mike McCormack to see that 802.3af Requirements List is posted to the Task Force Website, and to ensure that each of the requirements is dated.

- Create Ad-Hoc on mid-span technical issues - report next meeting
- Create Ad-Hoc on high-level state machine - report next meeting
- Create Ad-Hoc on power spec - report via e-mail, 2 weeks.
- Perform testing on discovery proposals against new matrix
- Perform all tests on idle pair power with the addition of CM coupling

DTE Power had approximately 71 individuals from 41 companies participating at this meeting, about 30% new to 802.3af, 15% new to 802.

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