Power on the 802.3 connection
July 11th & 12th, 2000

Power, Detection and Discovery

over the

Existing Ethernet Wiring

By CMS Technologies

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Characteristics of Method

Low Energy and Low Frequency

Either Pair and Either Location

Common and Differential Modes

Physical ID mirrors (and extends) logical MAC

No Logical dependencies - 100% Physical

No Gaps in Physical Control

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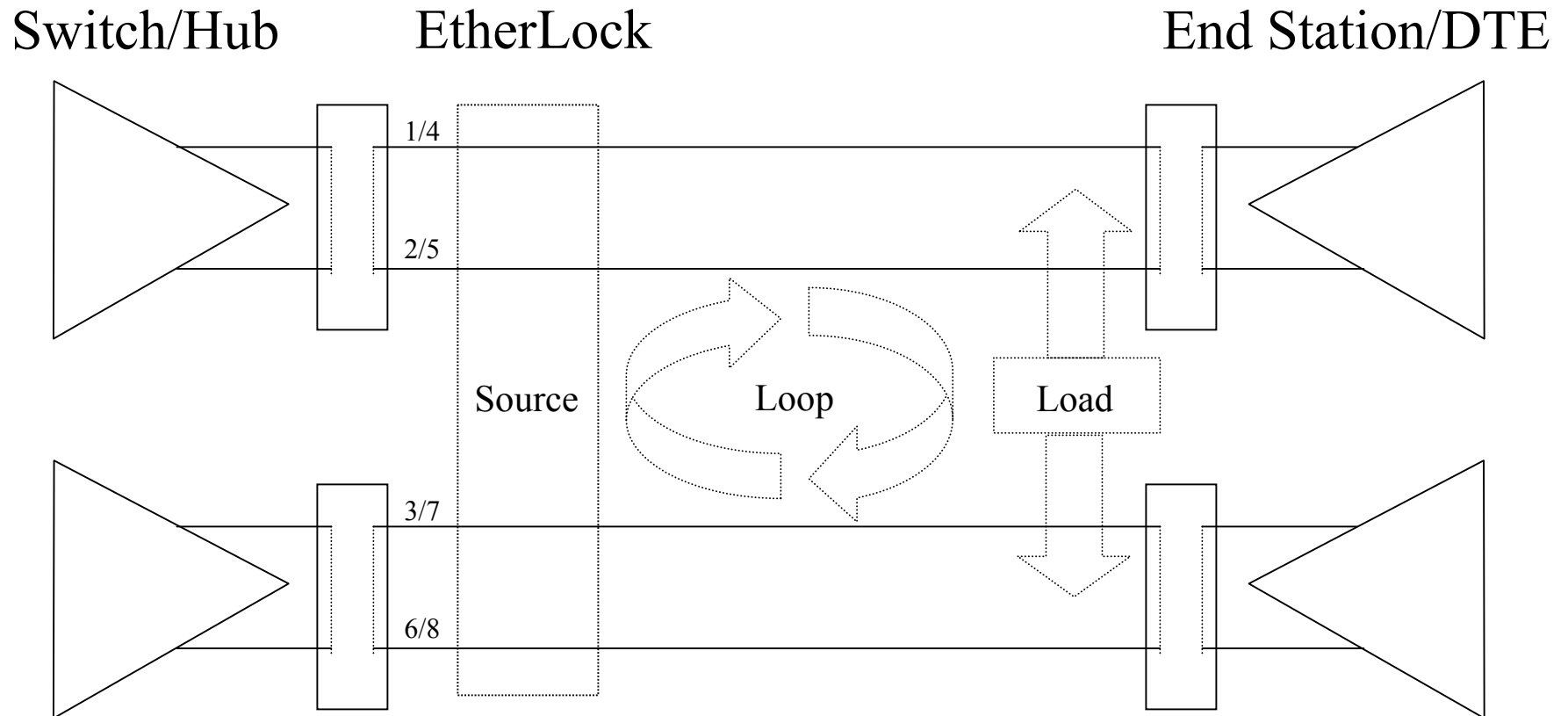## System Description

Current Loop

Power Source

Detector Circuitry

Optional ID Circuitry

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System Description

Switch/Hub   EtherLock   End Station/DTE

1/4

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Source   Loop   Load

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6/8

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Demonstration of System

EtherLock - Connection Integrity

EtherLock ID - DTE Identification

EtherLock Peripherals - DTE Operation

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Common Applications of System

Asset and Network Security

Asset and Network Management

Power and Connection Control

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Benefits

No Logical Dependencies

Existing Infrastructure

No Network Traffic

Real Time

Power on the 802.3 connection
802.3af Committee Outcome

Market Makers

Engineers

Customers

Thank you!