

Power on the 802.3 connection

July 11th & 12th, 2000

Power, Detection and Discovery

over the

Existing Ethernet Wiring

By CMS Technologies

Power on the 802.3 connection

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

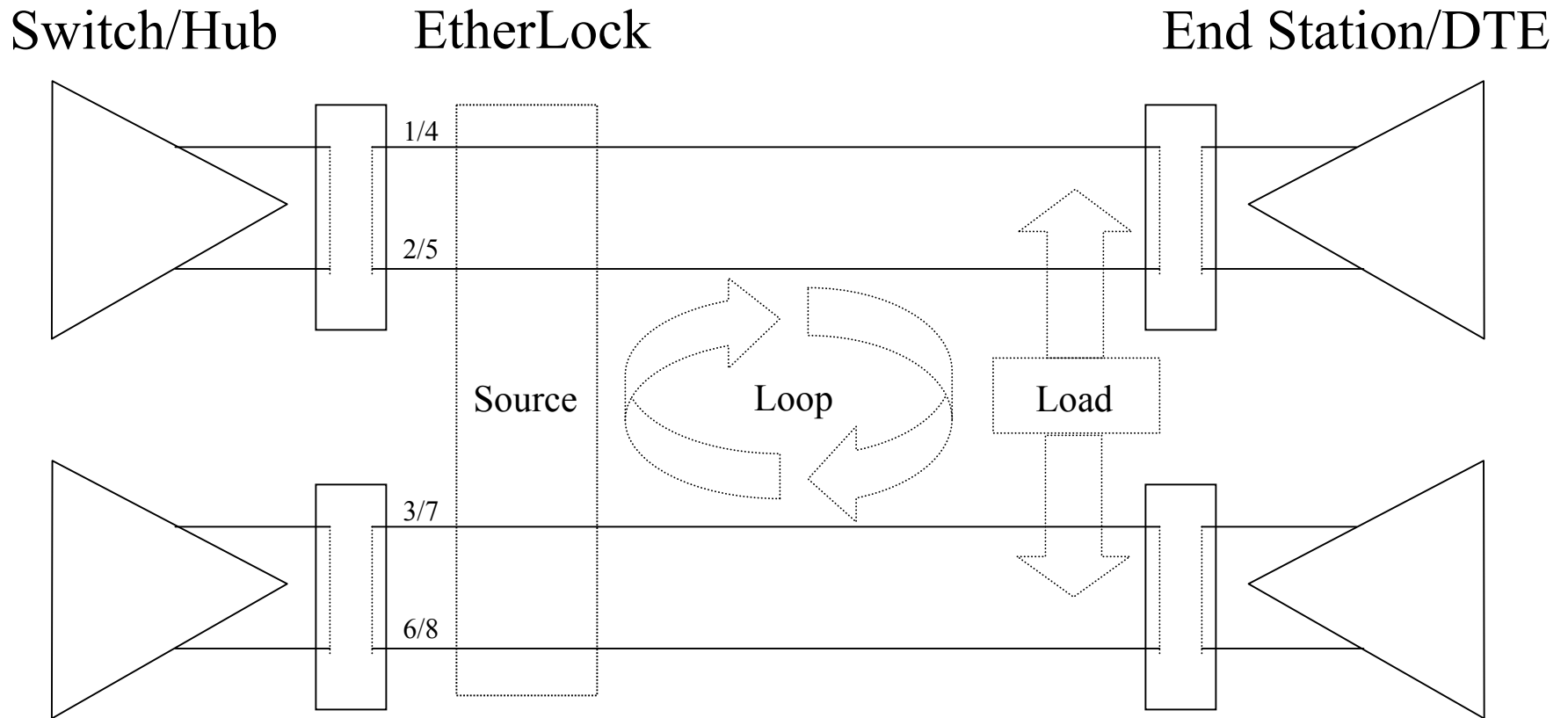
Power Source

Detector Circuitry

Optional ID Circuitry

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System Description



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Demonstration of System

EtherLock - Connection Integrity

EtherLock ID - DTE Identification

EtherLock Peripherals - DTE Operation

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