

# IEEE 802.3da SPMD TF: LLDP proposal

Peter Jones – Cisco  
July 2023 - Berlin

# Previously

- Earlier
  - Peter Jones
    - [LLDP overview and use cases](#)
    - [Discovery Revisted](#)
    - [PLCA Node ID Allocation Strawman](#)
  - Jason Potterf:
    - [LLDP - Traffic Pattern Overview for 802.3da Single Pair Multidrop](#)
    - [802.3da Clause 147 Multidrop Interoperability - Proposed Interpretation and Implementation](#)
- May 2023
  - Peter Jones
    - [LLDP proposal](#) and [LLDP baseline text proposal](#)

# What's changed in this deck since May?

- Changed to July 2023 – Berlin
- Updated link to LLDP baseline text proposal
- Added straw poll & motion slide for July 2023

# Standards

- 802.1AB-2016 - Station and Media Access Control Connectivity Discovery
- P802.1ABdh – Support for Multiframe Protocol Data Units
- 802.3-2022 Clause 79 - IEEE 802.3 Organizationally Specific Link Layer Discovery Protocol (LLDP) type, length, and value (TLV) information elements

# What

- Report
  - Segment membership (using “normal” LLDP exchange for MAC addresses, etc)
  - PLCA (PLCA Supported, PLCA Enabled, , D-PLCA Supported, D-PLCA Enabled, PLC NodeID)
- PLCA Control/configuration via LLDP
  - Not addressed, not needed?
- Power
  - Deferred until power solution baseline adopted

# Information Elements

- PLCA
  - Capabilities: Bitmap
    - PLCA supported, PLCA active
    - D-PLCA supported, D-PLCA active
  - nodeID: uint 0-255

# Proposed text and supporting material

- Refer to [jones\\_3da\\_02\\_061223.pdf](#)

# Straw Poll and Motion from May 2023

## Straw Poll #1

I support adopting the proposed baseline text in jones\_3da\_02\_051723.pdf pages 2 to 6.

voting at: 9:14am

Y: 12+9 = 21

N: 1+0 = 1

A: 2+3 = 4

## ~~Motion #~~

~~Adopt the proposed baseline text in jones\_3da\_02\_051723.pdf pages 2 to 6.~~

~~Mover: \_\_\_\_\_ Peter Jones~~

~~Seconder:~~

~~voting at:~~

~~Y:~~

~~N:~~

~~A:~~



# Straw Poll and Motion – July 2023

## Straw Poll #1

I support adopting the proposed baseline text in jones\_3da\_02\_061223.pdf pages 2 to 6.

voting at: ???

Y:

N:

A:

## Motion #

Adopt the proposed baseline text in jones\_3da\_02\_061223.pdf pages 2 to 6.

Mover: Peter Jones

Seconded:

voting at:

Y:

N:

A:

# Consensus

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# Miscellaneous Notes

- 802.3.1 MIB and 802.3.2 YANG models are not available as Machine readable extracts (<https://www.ieee802.org/3/publication/index.html>)?
  - Add links to [http://www.ieee802.org/3/1/public/mib\\_modules](http://www.ieee802.org/3/1/public/mib_modules) and <https://github.com/YangModels/yang/tree/master/standard/ieee/published/802.3> to <https://www.ieee802.org/3/> or to <https://www.ieee802.org/3/publication/index.html>).