

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

Motion #1

Adopt the proposed baseline text in jones_3da_02a_061223.pdf pages 2 to 6.

Mover: Peter Jones

Seconded: Bob Voss

voting at: 10:47am

Y: 27

N: 0

A: 4

Motion passes.

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 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>).