

# 802.1DP - ADDITIONAL STREAM IDENTIFICATION CONSIDERATIONS AND USE CASES

MARCH 2022 - NELS WAINEO / BRENT NELSON



# 802.1DP - ADDITIONAL STREAM IDENTIFICATION CONSIDERATIONS AND USE CASES

## OBJECTIVES

- Additional Integrator use cases in avionics
- Additional Proposed Stream Identification requirements for 802.1DP

# 802.1DP - ADDITIONAL STREAM IDENTIFICATION CONSIDERATIONS AND USE CASES

## REFERENCES

1. 802.1DP Stream Identification for Avionics Networks – 19 Jan 2022
  - <https://www.ieee802.org/1/files/public/docs2022/dp-schavey-stream-identification-0122-v03.pdf>
2. 802.1DP Stream Identification and Shaping for Avionics – 16 Feb 2022
  - <https://www.ieee802.org/1/files/public/docs2022/dp-schavey-stream-identification-proposal-0222-v02.pdf>

# 802.1DP - ADDITIONAL STREAM IDENTIFICATION CONSIDERATIONS AND USE CASES

## ADDITIONAL INTEGRATOR USE CASES IN AVIONICS

- In addition to reference use cases:
  - Uniquely identify flow based on legacy use cases (Backward compatibility):
    - Use Case 1:
      - Source MAC and Destination MAC  
Mask and Match – P802.1CBdb
    - Use Case 2:
      - Entire Maskable MSDU (160 bits) including R-Tag and Ethertype – Flexible integrator use case  
Mask and Match – P802.1CBdb

# 802.1DP - ADDITIONAL STREAM IDENTIFICATION CONSIDERATIONS AND USE CASES

## ADDITIONAL STREAM IDENTIFICATION REQUIREMENTS FOR 802.1DP

### Proposed Bridge Additional Requirement(s)

- TSN Bridges **may** support Mask and Match Stream Identification

### Proposed End Station Additional Requirement(s)

- TSN End Stations **may** support Mask and Match Stream Identification