

P802.1EH

Telemetry Tagging of Data Frames

Resolution of Comments on
Project Authorization Request (PAR) and Criteria for Standards Development (CSD)

2026-07-15

802.3 comments on the PAR and their resolution

Comment:

In Section 5.2., second sentence is difficult to parse. Should it be a list of three items that are all bridges? If yes, consider to change to: “This standard supports Medium Access Control (MAC) bridges, Customer Virtual Local Area Network (C-VLAN) bridges, Service Virtual Local Area Network (S-VLAN) bridges, and end stations in data center networks.”

Response:

The suggested change includes adding “in data center networks”, however it is thought that the telemetry may be useful in other LAN/MAN networks and therefore we do not want to add this restriction. We changed the sentence to: “This standard supports Medium Access Control (MAC) bridges, Customer Virtual Local Area Network (C-VLAN) bridges, Service Virtual Local Area Network (S-VLAN) bridges, and end stations.”

802.3 comments on the PAR and their resolution

Comment:

In section 5.4, there is an odd space between frame' and s" in the first sentence. Is it a formatting issue or a typo?

Response:

The phrase has been changed to: "...along the path of the data frame within a flow."

802.3 comments on the PAR and their resolution

Comment:

In section 8.1, please consider expanding the acronym for YANG. It would be useful to add text such as “It is vital to use 'YANG' in the project title, as well as elsewhere in the PAR, to inform potential participants and the target readership of the standard.”

Response:

As stated in 8.1 the expansion of YANG is not meaningful and therefore is not represented. Since YANG is just a portion of the support for telemetry tagging it is not appropriate to mention it in the project title.

We have updated 8.1: “While ‘YANG’ (developed by the Internet Engineering Task Force) is capitalized as though it were an acronym, it is not. We do not provide an expansion of YANG in the PAR because the IETF RFCs that define YANG do not give one. YANG is a data modeling language for the definition of data sent over network management protocols specified by IETF Request For Comments (RFC) 7950, The YANG 1.1 Data Modeling Language. It is essential to list YANG in the scope to inform potential participants and the target readership.”

802.11 comments on the PAR and their resolution

Comment:

5.4 – there is an extra space in “frame ‘s”

Response:

The phrase has been changed to: “...along the path of the data frame within a flow.”

802.11 comments on the PAR and their resolution

Comment:

5.5 – Change “Additionally, higher layer protocols need fine-grained bandwidth, delay, and congestion signals gathered from a path’s bottleneck to avoid packet loss from congestion and permit fast and accurate reactions to network load changes and network congestion events. Higher layer protocols also need fine-grained network load information to reduce the tails of flows’ completion times, which cause slowdowns in distributed computations used in datacenters for artificial intelligence (AI) training and inference.”

To: “Additionally, higher layer protocols need fine-grained bandwidth, delay, and congestion signals gathered from a path’s bottleneck. This avoids packet loss from congestion and permits fast and accurate reactions to network load changes and network congestion events. Higher layer protocols also need fine-grained network load information to reduce the tails of flows’ completion times. This can cause slowdowns in distributed computations used in datacenters for artificial intelligence (AI) training and inference.”

Response:

Since the fine-grained bandwidth, delay, and congestion signals do not in themselves result in avoiding packet loss from congestion, but provide the information needed by higher layers to avoid packet loss from congestion the suggested second sentence needs slight rephrasing. The fourth sentence also needs to reference flow completions.

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802.11 comments on the PAR and their resolution continued from previous slide

response continued:

Change the second and third sentences of 5.5 to:

“Additionally, higher layer protocols need fine-grained bandwidth, delay, and congestion signals gathered from a path’s bottleneck. This permits higher layer protocols to avoid packet loss from congestion and permits fast and accurate reactions to network load changes and network congestion events. Higher layer protocols also need fine-grained network load information to reduce the tails of flows’ completion times. These long tail flow completion times can cause slowdowns in distributed computations used in datacenters for artificial intelligence (AI) training and inference.”

802.15 comments on the PAR and their resolution

Comment:

PAR 4.2 spacing between data frame's path

Response:

The phrase in 5.4 has been changed to: "...along the path of the data frame within a flow."

802.15 comments on the CSD and their resolution

Comment:

CSD d) No. e) reword to “This is not a wireless project.”

Response:

We changed CSD 1.1.2 as suggested.