

P802.1ABdh Station and Media Access Control Connectivity Discovery - Amendment: Support for Multiframe Protocol Data Units

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

2019-07-17

802.11 Comment on PAR 6.1

Comment Summary:

“6.1b - Change “in 802.1AB” to “IEEE Std 802.1AB””

› Response:

Accept

Change “in 802.1AB” to “in IEEE Std 802.1AB”

802.11 Comment on CSD 1.2.1,a

Comment Summary:

“1.2.1 a) Missed expansion on first use of “LLDP “ and “LLDPDU“”

› Response:

While not required we have made the recommended changes

Replace 1.2.1,a text with the following:

“a) IEEE Std 802.1AB defines the Link Layer Discovery Protocol (LLDP), a highly successful and widely deployed protocol in the industry. It is used in numerous applications ranging from wireless environments, to enterprise LAN, to data centers and anything that involves an 802 station or network link. Many of these applications require the exchange of larger quantities of data than can fit in a single frame. Additionally, the flexibility of restricting the size of the Link Layer Discovery Protocol Data Unit (LLDPDU) to meet timing constraints is needed in certain time sensitive environments.”

802.11 Comment on CSD 1.2.2

Comment Summary:

“1.2.2 – Change “IEEE 802.1AB“ to “IEEE Std 802.1AB””

› Response:

Accept

Change “IEEE 802.1AB“ to “IEEE Std 802.1AB”

802.11 Comment on CSD 1.2.3

Comment Summary:

“1.2.3 – Change “IEEE 802.1AB“ to “IEEE Std 802.1AB””

› Response:

Accept

Change “IEEE 802.1AB“ to “IEEE Std 802.1AB”

802.3 Comment on CSD 1.2.4,b

Comment Summary:

“1.2.4,b, Technical Feasibility — Though the CSD does not go to NesCom, it might be helpful to some if “ISIS” was expanded..”

› Response:

Accept

Replace 1.2.4,b text with the following:

“b) Existing layer 2 and layer 3 routing protocols, such as the Intermediate System to Intermediate System (IS-IS) protocol, defined in ISO/IEC 10589:2002, have similar transmission and reception characteristics and have been implemented and supported for many years on similar devices.”

802.11 Comment on CSD 1.2.4,b

Comment Summary:

“1.2.4 b) Missed expansion of first use of “ISIS””

› Response:

Accept

Replace 1.2.4,b text with the following:

“b) Existing layer 2 and layer 3 routing protocols, such as the Intermediate System to Intermediate System (IS-IS) protocol, defined in ISO/IEC 10589:2002, have similar transmission and reception characteristics and have been implemented and supported for many years on similar devices.”

James Gilb Comment on CSD 1.2.5

Comment Summary:

“The statements of 1.2.5 are assertions, but no justification is given for why there will be no change to the established cost balance or why the incremental costs are minimal.

Please provide some justification, for cost, even though software doesn't have an per unit cost like hardware, new features incur development, testing, validation and maintenance costs.”

› Response:

Accept

Replace 1.2.5 text with the following:

“The proposed amendment will update an existing protocol implemented by both infrastructure and attached stations and will not change the well-established cost balance between the two.

The cost factors, including installation and operational costs of IEEE Std 802.1AB are well known. The backward compatible proposed amendment will not increase installation or operational costs and may require a negligible increase in CPU processing and memory to support multiframe operation. The incremental costs of the new capability are minimal compared to the benefits specified by the amendment.”