



Release Notes

Document: Ultra Ethernet™ Specification

Version: 1.0.3

Release Date: 07/16/2026

Previous Version: 1.0.2 (Released 01/21/2026)

Overview

This release includes a set of editorial corrections and clarifications to improve the readability and accuracy of the Ultra Ethernet™ Specification v1.0.2, published on January 21, 2026.

Summary of Changes

Section	Type	Description of Change
3.5.16.7.2	Enhancement	Define a new Negotiation CP type for boolean (on_off) features.
6.1.2	Enhancement	Add support for 200 Gb/s per lane signaling.
3.5.5, 3.5.8, 3.5.16	Correction	Introduce a new <i>Syn_Retx_Safety_Time</i> configuration parameter to address a PDC establishment issue that occurs when a PDC is closed and subsequently reopened after a packet with pds.flags.syn = 1 is determined to be lost.
3.5.11.13, Table 3-28,	Correction	Create a new <i>Override_MPR_Zero_Value</i> configuration parameter that allows the <i>MP_Range</i> value in the pds.mpr field to be set to a value smaller than 128.
5.2.9	Correction	Ensure CC_Update packets are marked LLR-eligible to resolve possible credit accounting errors when CC_Update packets are in-flight during or just prior to the “LLR discard window”.
6.2	Correction	Provide protection against corruption of control ordered sets (CtlOS) in 100GBASE-R PHYs, where RS-FEC error marking does not always delete corrupted CtlOS.
Table 2-26	Clarification	Clarify that <i>fi_compare_atomic</i> operations apply to the AI Full Profile.
3.4.1.3.6, Table 2-4	Clarification	Clarify that <i>FI_MR_ENDPOINT</i> support is optional.
3.4.1.14, Table 3-15, Table 3-17	Clarification	Clarify that <i>UET_MSG_ERROR</i> is not used with UUD PDCs and that the message ID for a <i>UET_DATAGRAM_SEND</i> must be set to 0.
3.4.5.3.2, 3.4.5.4.1, Table 3-17	Clarification	Clarify that <i>UET_MSG_ERROR</i> can be used as a general mechanism for early message termination by the initiator.
Table 3-58, Table 3-61	Clarification	Remove the <i>UET_TRIMMED_ACK</i> NACK code and clarify that trimmed ACKs do not generate a NACK.
3.7.5.1, 3.7.5.5, Table 3-94	Clarification	Clarify the creation of the <i>IVMASK</i> in direct KDF mode.
5.1.5, 5.2.9	Clarification	Clarify that LLR-ineligible packets may be interspersed among retransmitted packets.
Table 5-10	Clarification	Clarify that the <i>pcs_lost_status_timer</i> is not accumulated when <i>PCS_status</i> is FALSE.
Table 5-10	Clarification	Clarify that the replay count should be reset when an <i>LLR_NACK</i> is received.

Section	Type	Description of Change
5.1.6	Clarification	Clarify the text for generating an LLR_NACK when a non-duplicate frame with an unexpected sequence number is received.
5.1.9.1.5	Clarification	Clarify that the CtIOS transmission of LLR and CBRF should not starve one another.
5.1.10	Clarification	Clarify the bit-order of the value used to poison the FCS.
5.2.5	Clarification	Clarify that the definition of the CBFC pktSize variable is the size of the MAC frame in bytes.
5.2.5.2	Clarification	Clarify that a consistent network wide configuration is needed when both PCP and DSCP are used to identify CBFC VCs.
5.2.5.7.4	Clarification	Clarify that CBFC treats any LostCredits value less than 0 or greater than $2^{14} - 1$ as a serious error condition.
5.2.5.7.3	Clarification	Clarify that CBFC CF_Update triggers may occur on a per-VC basis.
Table 2-17	Editorial	Clarify the memory key scope requirements.
Table 3-9, Table 3-10	Editorial	Fix bit size mismatch in header tables verse header figure.
Figure 3-31	Editorial	Fix message ID cut-and-paste errors in figure.

Impact Statement

The clarification and editorial updates are non-substantive and do not affect protocol behavior, compliance, or interoperability. Correction updates are required for conforming implementations.

Document Version History

Version	Date	Description
1.0	06/11/2025	Initial version.
1.0.1	09/05/2025	Editorial clarifications and correction to the RCCC source algorithm.
1.0.2	01/21/2026	Correction to CMS congestion control algorithms and other editorial clarifications.
1.0.3	07/16/2026	A number of editorial clarifications, addition of 200 Gb/s per lane signaling, a new Negotiation CP type, corrections to UE PHY CtIOS corruption protection, UE Transport handling of retransmission when pds.flags.syn =1 on PDC close, specifying <i>MP_Range</i> less than 128 and corrections to UE Link Layer to resolve CBFC/LLR race conditions.