

# Erratum 26610: Ranging Data Body Structure Update

## Bluetooth® Expedited Specification Update

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- **Version:** v1.0
- **Version Date:** 2025-08-11
- **Prepared By:** Direction Finding Working Group

This Expedited Specification Update applies to the following specification:

- Ranging Service v1.0 (“Source Specification”)

### **Abstract:**

This Errata Correction specifies the changes applied to a Ranging Header field of the Ranging Data Body structure to avoid the incorrect interpretation of Step\_Data [i] when Step\_Mode [i] is mode-2 or mode-3 and antenna paths filtering is enabled.

**Version History**

<b>Version Number</b>	<b>Date (yyyy-mm-dd)</b>	<b>Comments</b>
v1.0	2025-08-11	Adopted by the Bluetooth SIG Board of Directors.

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# 1 Drafting conventions

## 1.1 Language

Refer to and follow any terminology, language conventions, and interpretation sections of the Source Specification(s).

## 1.2 Formatting and color

The formatting and color conventions described in [Table 1.1](#) below are used in this Expedited Specification Update to describe the specific changes and additions to the Source Specification(s) identified on the cover page.

Text Color	Description
black	Text that is unmodified from the Source Specification.
red	Text that is added to the Source Specification.
<del>red strikethrough</del>	Text that is deleted from the Source Specification.
[green bracketed text]	Comments that explain the changes to be made to the Source Specification.
[...]	Indicates the section of the Source Specification that includes additional text that is not included in black text.
blue	Default color used for section numbers and headings of this document.

Table 1.1: Color key for headings, captions, and body text

## 2 Changes to Ranging Service v1.0

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Ranging Service v1.0.

### 2.1 Changes to Ranging Service v1.0

#### 2.1.1 [Modified Section] Section 3.2.1.2, Ranging Data Body

[Table 3.7 below shows the changes to the Antenna Paths Mask field description and a new row for the RFU field description.]

Field	Size (bits)	Description
Ranging Counter	12	Ranging Counter is lower 12-bits of CS Procedure_Counter (see Volume 4, Part E, Section 7.7.65.44 in [1]) provided by the Core Controller.
Configuration ID	4	CS configuration identifier. Range: 0 to 3
Selected TX power	8	Transmit power level used for the CS Procedure. Range: -127 to 20 Units: decibels referenced to 1 milliwatt (dBm)
<del>Antenna Paths Mask Previously used<sup>1</sup></del>	<del>8</del> <del>4</del>	<del>Antenna paths that are reported:- Bit0: 1 if Antenna_Path_1 included; 0 if not.- Bit1: 1 if Antenna_Path_2 included; 0 if not.- Bit2: 1 if Antenna_Path_3 included; 0 if not.- Bit3: 1 if Antenna_Path_4 included; 0 if not.- Bits 0-3: Previously used<sup>1</sup></del>
RFU	4	Bits 0-3: RFU

Table 3.7: Ranging Header structure

<sup>1</sup> As defined in Volume 1, Part E, Section 2.4.2 in [1].

## 3 References

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- [1] Bluetooth Core Specification, Version 6.0 or later