

Erratum 29015: Reduce Max_SDU Mandatory Range

Bluetooth® Expedited Specification Update

- **Version:** v1.0
- **Version Date:** 2026-09-15
- **Prepared By:** Core Specification Working Group

This Expedited Specification Update applies to the following specifications (collectively, the “Source Specifications”):

- Bluetooth Core Specification, Version 6.3 (“Core Specification, v6.3”) [\[1\]](#)
- Bluetooth Core Specification, Version 6.2 (“Core Specification, v6.2”) [\[2\]](#)
- Bluetooth Core Specification, Version 6.1 (“Core Specification, v6.1”) [\[3\]](#)
- Bluetooth Core Specification, Version 6.0 (“Core Specification, v6.0”) [\[4\]](#)
- Bluetooth Core Specification (amended), Version 5.4 (“Core Specification (amended), v5.4”) [\[5\]](#)
- Bluetooth Core Specification (amended), Version 5.3 (“Core Specification (amended), v5.3”) [\[6\]](#)
- Bluetooth Core Specification (amended), Version 5.2 (“Core Specification (amended), v5.2”) [\[7\]](#)

Abstract:

This erratum reduces the maximum mandatory value for Max_SDU from 4095 to 251. This means that implementations do not need to support large SDUs that will never be used in the field.

Version History

Version Number	Date (yyyy-mm-dd)	Comments
v1.0	2026-09-15	Adopted by the Bluetooth SIG Board of Directors.

Acknowledgments

Name	Company
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Clive D.W. Feather	Samsung Cambridge Solution Centre

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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.
red strikethrough	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 Core Specification, v6.3

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification, v6.3 [1].

2.1 Changes to Core Specification, v6.3, Volume 6, Part B: Link Layer Specification

2.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in Section 4.4.6.4 to Section 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

2.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

3 Changes to Core Specification, v6.2

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification, v6.2 [2].

3.1 Changes to Core Specification, v6.2, Volume 6, Part B: Link Layer Specification

3.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in Section 4.4.6.4 to Section 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

3.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

4 Changes to Core Specification, v6.1

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification, v6.1 [3].

4.1 Changes to Core Specification, v6.1, Volume 6, Part B: Link Layer Specification

4.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in subsections 4.4.6.4 to 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

4.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

5 Changes to Core Specification, v6.0

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification, v6.0 [4].

5.1 Changes to Core Specification, v6.0, Volume 6, Part B: Link Layer Specification

5.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in subsections 4.4.6.4 to 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

5.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

6 Changes to Core Specification (amended), v5.4

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification (amended), v5.4 [5].

6.1 Changes to Core Specification (amended), v5.4, Volume 6, Part B: Link Layer Specification

6.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in subsections 4.4.6.4 to 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

6.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

7 Changes to Core Specification (amended), v5.3

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification (amended), v5.3 [6].

7.1 Changes to Core Specification (amended), v5.3, Volume 6, Part B: Link Layer Specification

7.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in subsections 4.4.6.4 to 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- BN: 1
- NSE: all supported values of BN
- PTO: 0
- IRC: all supported values of GC (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

7.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- BN: 0 and 1
- NSE: all supported values of BN except 0
- FT: 1
- Max_SDU: 0 to 251

[...]

8 Changes to Core Specification (amended), v5.2

This Section sets forth the specific changes and additions, using the formatting and color conventions described in Section 1.2, to Core Specification (amended), v5.2 [7].

8.1 Changes to Core Specification (amended), v5.2, Volume 6, Part B: Link Layer Specification

8.1.1 [Modified Section] 4.4.6.3 BIG parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown below.]

[...]

These parameters shall not change during the lifetime of the BIG. They are discussed further in subsections 4.4.6.4 to 4.4.6.11. The mandatory range for each parameter is the entire range of valid values except for the following parameters, where only the listed values are mandatory:

- Num_BIS: 1
- NSE: 1
- BN: 1
- PTO: 0
- IRC: ~~all supported values of GC~~ (see Section 4.4.6.6)
- Max_SDU: 1 to 251

[...]

8.1.2 [Modified Section] 4.5.13.1 CIS parameters

[Add a new bullet text item to the end of the existing bullets. The modified text with changes is shown.]

[...]

These parameters shall not change during the lifetime of the CIS. They are discussed further in the following subsections. The mandatory range for each parameter is the entire range of valid values except for the following, where only the listed values are mandatory:

- NSE: 1
- BN: 0 and 1
- FT: 1
- Max_SDU: 0 to 251

[...]

9 References

- [1] Bluetooth Core Specification, Version 6.3
- [2] Bluetooth Core Specification, Version 6.2
- [3] Bluetooth Core Specification, Version 6.1
- [4] Bluetooth Core Specification, Version 6.0
- [5] Bluetooth Core Specification (amended), Version 5.4
- [6] Bluetooth Core Specification (amended), Version 5.3
- [7] Bluetooth Core Specification (amended), Version 5.2