

# BR/EDR Radio Physical Layer (RF)

## **Bluetooth® Implementation Conformance Statement (ICS) Proforma**

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# 1 General principles

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## 1.1 Implementation Under Test (IUT) identification

Using the Bluetooth SIG qualification tool, the implementer is expected to declare details about what will be implemented.

## 2 ICS declarations

### 2.1 Capability statement

Table 1: RF Capabilities

Item	Capability	Reference	Status
1	Power Class 1	[1] 3 [3] 5	O
2–3	No longer used	N/A	N/A
4	Power Control	[1] 3	C.1
5	1-slot packets	[2] 6.5	M
6	3-slot packets	[2] 6.5	O
7	5-slot packets	[2] 6.5	C.2
8	79 Channels	[1] 2	M
9	GFSK modulation	[1] 3.1	M
10	$\pi/4$ -DQPSK modulation	[1] 3.2	O
11	8DPSK modulation	[1] 3.2	C.3
12	Enhanced Power Control	[1] 3	C.4

C.1: Mandatory IF RF 1/1 “Power Class 1”, otherwise Optional.

C.2: Optional IF RF 1/6 “3-slot packets”, otherwise Excluded.

C.3: Optional IF RF 1/10 “ $\pi/4$ -DQPSK modulation”, otherwise Excluded.

C.4: Optional IF RF 1/4 “Power Control”, otherwise Excluded.

## 3 References

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- [1] Specification of the Bluetooth System, Radio (RF) Volume 2, Part A, Version 4.2 or later
- [2] Specification of the Bluetooth System, Baseband (BB) Volume 2, Part B
- [3] Specification of the Bluetooth System, Radio (RF) Volume 2, Part A, Version 6.0 or later

## 4 Revision history and acknowledgments

### Revision History

Publication Number	Revision Number	Date	Comments
	D5r3	2003-11-05	Original Release
	D10R00	2004-03-10	Re-partitioned to match Main Specification Volume/Part partitioning.
	D10R01	2004-03-11	Editorial changes
	D12r02	2004-03-25	Editorial changes. Changed reference and document numbering to D12 to reflect applicable Bluetooth version.
	1.2.1	2004-03-29	Changed document number and revision number to conform with legacy system. Added Disclaimer and Copyright Notice.
	1.2.1r01	2004-10-06	Added EDR material.
	2.0.E.0 Draft	2004-10-22	Updated to reflect latest Conformance Requirements.
10	2.0.E.0	2004-11-04	First version for 1.2/2.0/2.0 + EDR available for qualification
	2.1.E.0r0	2006-12-13	Editorial updates; changes to Conditional Statements to accommodate the introduction of the 2.1 and 2.1+EDR Specification.
	2.1.E.0r1	2006-12-26	Editorial changes.
11	2.1.E.0	2006-12-29	Prepare for publication.
	2.1.E.1r0	2009-02-12	Add new item for enhanced power control feature
	2.1.E.1r1	2009-03-25	Added EDR constraint to the C.2, C.3 conditionals, and fixed the ( on C.3
12	3.0.H.0	2009-04-21	TSE 2744: add two more rows for each of the power classes in Table 1. Prepare for publication.
13	3.0.H.1	2009-08-12	TSE 2938. Change Table 1 footnote C.4 from 1/2 to 1/4
	4.0.2r0	2010-12-12	TSE 4064: Table 1, Footnote C.2 and C.3
14	4.0.2	2011-07-18	Prepare for publication.
	4.1.0r01	2013-11-11	Updated revision to 4.1.0 Updated top sheet to include version 4.1
15	4.1.0	2013-12-03	Prepare for Publication
	4.2.0r00	2014-11-17	Revved version to align with Core Specification Version 4.2 Release.
	4.2.0r01	2014-11-24	Review by Alicia Minor editorial changes
16	4.2.0	2014-12-04	Corrected conditional in 1/4 to C.1. Prepared for TCRL 2014-2 publication

Publication Number	Revision Number	Date	Comments
	4.2.1r00	2015-10-14	TSE 6650: Updated conditionals in Table 1 to reflect omitted changes from TSE 4597. Additional editorial changes made to bring document in line with current conventions. TSE 6506: Reworded C.5 of Table 1 to allow support for more than one power class.
17	4.2.1	2015-12-22	Prepared for TCRL 2015-2 publication
	5.0.0r00	2016-11-08	Revision updated for Core Specification 5.0 release
	5.0.0r01	2016-11-08	Updated Template. Removed unnecessary parentheses.
18	5.0.0	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication.
	5.1.0r00	2018-11-13	Updated revision number to 5.1.0 to align with the adoption of Core Specification version 5.1
19	5.1.0	2018-12-07	Approved by BTI. Prepared for TCRL 2018-2 publication.
	p20r00	2019-11-12	Revised document numbering convention, setting last release publication of 5.1.0 as p19; added Publication Number column to Revision History. Moved Revision History and Contributors tables to end of doc. Updated Documentation Disclaimer and Confidentiality Markers to align with updated Documentation Marking Requirements. Made minor editorial changes.
20	p20	2020-01-07	Approved by BTI on 2019-12-22. Prepared for TCRL 2019-2 publication.
	p20ed2r00	2022-07-19	TSE 19146 (rating 1): Updated to align with current ICS conventions/template. Removed Support and Values Allowed/Supported columns. Removed deprecated SUM ICS references in C.2–C.4.
	p20 edition 2	2022-08-23	Approved by BTI on 2022-08-22. Prepared for edition 2 publication.
	p21r00–r01	2023-09-26 – 2023-10-23	TSE 24077 (rating 2): Replaced SUM ICS references with CORE ICS references. In Table 1, deleted C.2 and updated C.3 (affecting 1/11) and updated the status of 1/10 to Optional.
21	p21	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.
	p22r00–r01	2024-07-16 – 2024-07-21	TSE 25655 (rating 1): Corrected RF 1/10 to “Support for $\pi/4$ -DQPSK modulation” to align with the Core spec. Incorporated integration review feedback.
22	p22	2024-09-04	Approved by BTI on 2024-08-14. Prepared for TCRL 2024-2 publication.



Publication Number	Revision Number	Date	Comments
	p23r00–r03	2024-11-01 – 2024-12-09	TSE 25102 (rating 2): Per E25101, for Table 1 updated text for Items 1–3 and 7; text for conditionals C.1, C.2, and C.5; and formatting for C.4. TSE 26597 (rating 1): Updated test doc title to better align with the associated spec.
23	p23	2025-02-18	Approved by BTI on 2024-12-26. Prepared for TCRL 2025-1 publication.
	p24r00	2025-01-30	TSE 26964 (rating 1): Updated the RF Core references to describe versions. Updated the 1/1 accordingly.
24	p24	2025-05-06	Approved by BTI on 2025-04-16. Prepared for TCRL 2025-2 publication.
	p24ed2r00	2025-08-21	TSE 28074 (rating 1): Updated capability names in Table 1 to align with current conventions.
	p24ed2	2025-11-04	Approved by BTI on 2025-10-05. Prepared for TCRL edition 2 publication.

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