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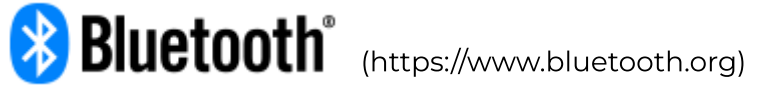❶ Updated Launch Studio Terms of Use go into effect on 15 November 2022. Changes clarify Declaration ID validity period. Learn more (https://support.bluetooth.com/hc/en-us/articles/360054636252)

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Capability Statement

Table 1: Physical Channel

Support	Item	Capability	Reference	Status	Comment
☑	1/1	Frequency band and 79 RF channels	[1] 2.1	M	
☑	1/2	Adaptive Frequency Hopping Kernel	[1] 2.6	M	

Capability Statement

Table 1a: Modulation

Support	Item	Capability	Reference	Status	Comment
☑	1a/1	Basic Data Rate, 1 Mbps payload data rate	[2] 3.1	M	
☑	1a/2	Enhanced Data Rate, 2 Mbps payload data rate	[2] 3.2	C.1	C.1: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" SUM ICS 22/4 "EDR for synchronous transports, CSA1 and 3.0+HS or later") is supported, otherwise Optional.

Support	Item	Capability	Reference	Status	Comment
☑	1a/3	Enhanced Data Rate, 3 Mbps payload data rate	[2] 3.2	C.2	C.2: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported, otherwise Excluded.

Capability Statement

Table 2: Link Types

Support	Item	Capability	Reference	Status	Comment
☑	2/1	ACL link	[1] 5.2	M	
☑	2/2	SCO link	[1] 5.4	O	
☑	2/3	eSCO link	[1] 4.3	O	
☑	2/4	Enhanced Data Rate ACL links	[1] 6.5.4	C.1	C.1: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported, otherwise Excluded
☑	2/5	Enhanced Data Rate eSCO links	[1] 6.5.3	C.2	C.2: Mandatory IF SUM ICS 22/4 "EDR for synchronous transports (Core 3.0 or later)" is supported, otherwise Excluded.
☐	2/6	Profile Broadcast Data Link	[1] 5.7	O	
☐	2/7	ACL with AES-CCM and MIC	[4] 8.3.2	C.4	C.4: Mandatory IF LMP 2/26 "Secure Connections" is supported, otherwise Excluded.
☐	2/8	eSCO with AES-CCM	[4] 8.3.1	C.5	C.5: Mandatory IF LMP 2/26 "Secure Connections" AND BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.

Capability Statement

Table 3: SCO and eSCO Link Support

Support	Item	Capability	Reference	Status	Comment

Support	Item	Capability	Reference	Status	Comment
☑	3/1	SCO links to same Slave	[1] 4.3	C.1	C.1: Mandatory to support at least 1 SCO link type IF BB 2/2 "Support of SCO link" is supported.
☑	3/2	SCO links to different Slaves	[1] 4.3	C.3	C.3: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	3/3	SCO links from same Master	[1] 4.3	C.1	C.1: Mandatory to support at least 1 SCO link type IF BB 2/2 "Support of SCO link" is supported.
☑	3/4	SCO links from different Masters	[1] 4.3	C.3	C.3: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	3/5	eSCO links to same Slave	[1] 4.2	C.2	C.2: Mandatory to support at least 1 eSCO link type IF BB 2/3 "Support of eSCO link" is supported.
☑	3/6	eSCO links to different Slaves	[1] 4.2	C.4	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
☑	3/7	eSCO links from same Master	[1] 4.2	C.2	C.2: Mandatory to support at least 1 eSCO link type IF BB 2/3 "Support of eSCO link" is supported.
☑	3/8	eSCO links from different Masters	[1] 4.2	C.4	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.

Capability Statement

Table 3a: Profile Broadcast Data Link Support

Prerequisite: BB 2/6 "Support of Broadcast Data Link"

Support	Item	Capability	Reference	Status	Comment
☐	3a/1	Connectionless Slave Broadcast Transmitter	[1] 8.10.1 [2] 3.3, Table 3.4, Item 128	C.1	C.1: Mandatory to support at least one of the defined roles.
☐	3a/2	Connectionless Slave Broadcast Receiver	[1] 6.5.1 [1] 6.5.1.2	C.1	C.1: Mandatory to support at least one of the defined roles.

Capability Statement

Table 4: Common Packet Types

Support	Item	Capability	Reference	Status	Comment
☑	4/1	ID packet type	[1] 6.5.1, [1] 6.5.1.1	M	
☑	4/2	NULL packet type	[1] 6.5.1, [1] 6.5.1.2	M	
☑	4/3	POLL packet type	[1] 6.5.1, [1] 6.5.1.3	M	
☑	4/4	FHS packet type	[1] 6.5.1, [1] 6.5.1.4	M	
☑	4/5	DM1 packet type	[1] 6.5.1, [1] 6.5.1.5, [1] 6.5.4, [1] 6.5.4.1	M	

Capability Statement

Table 5: ACL Packet Types

Support	Item	Capability	Reference	Status	Comment
☑	5/1	DH1 packet type	[1] 6.5.4, [1] 6.5.4.2	M	
☑	5/2	DM3 packet type	[1] 6.5.4, [1] 6.5.4.3	C.1	C.1: Mandatory IF (BB 9c/1 "Synchronization Train" OR BB 9c/2 "Synchronization Scan") is supported, otherwise Optional.
☑	5/3	DH3 packet type	[1] 6.5.4, [1] 6.5.4.4	O	
☑	5/4	DM5 packet type	[1] 6.5.4, [1] 6.5.4.5	O	
☑	5/5	DH5 packet type	[1] 6.5.4, [1] 6.5.4.6	O	
☐	5/6	AUX1 packet type	[1] 6.5.4, [1] 6.5.4.7	O	

Capability Statement

Table 5a: Enhanced Data Rate ACL Packet Types

Prerequisite: BB 2/4 "Support of Enhanced Date Rate ACL links"

Support	Item	Capability	Reference	Status	Comment

☑	5a/1	2-DH1 packet type	[1] 6.5.4.8	C.1	C.1: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
☑	5a/2	2-DH3 packet type	[1] 6.5.4.9	C.2	C.2: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate is supported; otherwise Excluded.
☑	5a/3	2-DH5 packet type	[1] 6.5.4.10	C.2	C.2: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate is supported; otherwise Excluded.
☑	5a/4	3-DH1 packet type	[1] 6.5.4.11	C.3	C.3: Mandatory IF (SUM ICS 22/1 "EDR for asynchronous transports (single slot)" OR SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)") is supported; Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported; otherwise Excluded.
☑	5a/5	3-DH3 packet type	[1] 6.5.4.12	C.4	C.4: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/2 "Support 2-DH3 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded.

Support	Item	Capability	Reference	Status	Comment
☑	5a/6	3-DH5 packet type	[1] 6.5.4.13	C.5	C.5: Mandatory IF SUM ICS 22/2 "EDR for asynchronous transports (multi-slot)" is supported; Optional IF (BB 5a/3 "Support 2-DH5 packet type" AND BB 5a/4 "Support 3-DH1 packet type") are supported; otherwise Excluded.

Capability Statement

Table 6: SCO and eSCO Packet Types

Support	Item	Capability	Reference	Status	Comment
☑	6/1	HV1 packet type	[1] 6.5.2, [1] 6.5.2.1	C.1	C.1: Mandatory IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	6/2	HV2 packet type	[1] 6.5.2, [1] 6.5.2.2	C.2	C.2: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	6/3	HV3 packet type	[1] 6.5.2, [1] 6.5.2.3	C.2	C.2: Optional IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	6/4	DV packet type	[1] 6.5.2, [1] 6.5.2.4	C.1	C.1: Mandatory IF BB 2/2 "Support of SCO link" is supported, otherwise Excluded.
☑	6/5	EV3 packet type	[1] 6.5.3, [1] 6.5.2.1	C.3	C.3: Mandatory IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
☑	6/6	EV4 packet type	[1] 6.5.3, [1] 6.5.2.2	C.4	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.
☑	6/7	EV5 packet type	[1] 6.5.3, [1] 6.5.2.3	C.4	C.4: Optional IF BB 2/3 "Support of eSCO link" is supported, otherwise Excluded.

Capability Statement

Table 6a: Enhanced Data Rate eSCO Packet Types

Prerequisite: BB 2/5 "Support of Enhanced Data Rate eSCO links"

Support	Item	Capability	Reference	Status	Comment

Support	Item	Capability	Reference	Status	Comment
☑	6a/1	2-EV3 packet type	[1] 6.5.3.4	C.1	C.1: Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported; otherwise Excluded.
☑	6a/2	2-EV5 packet type	[1] 6.5.3.5	C.2	C.2: Optional IF BB 1a/2 "Enhanced Data Rate, 2 Mbps payload data rate" is supported, otherwise Excluded.
☑	6a/3	3-EV3 packet type	[1] 6.5.3.6	C.3	C.3: Mandatory IF SUM ICS 22/4 "EDR for synchronous transports, CSA1 and 3.0+HS or later" is NOT supported; Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported; otherwise Excluded.
☑	6a/4	3-EV5 packet type	[1] 6.5.3.7	C.4	C.4: Optional IF BB 1a/3 "Enhanced Data Rate, 3 Mbps payload data rate" is supported, otherwise Excluded.

Capability Statement

Table 7: Page Procedures

Support	Item	Capability	Reference	Status	Comment
☑	7/1	Paging	[1] 8.3.2	M	
☑	7/2	Page scan	[1] 8.3.1	M	
☑	7/5	Interlaced Scan during page scan	[1] 2.4	O	
☐	7/6	Truncated Paging	[1] 8.3.3	C.1	C.1: Mandatory IF BB 3a/2 "Connectionless Slave Broadcast Receiver" is supported, otherwise Optional.
☐	7/7	Page Response Timeout Detection	[1] 8.3	C.2	C.2: Mandatory IF BB 3a/1 "Connectionless Slave Broadcast Transmitter" is supported, otherwise Optional.
☐	7/8	Train Nudging During Page	[4] 8.3.2	O	

Support	Item	Capability	Reference	Status
☐	7/9	Generalized Interlaced Page Scan	[4] 8.3.1	O

Capability Statement

Table 8: Paging Schemes

Support	Item	Capability	Reference	Status	Comment
☑	8/1	Mandatory scan mode	[1] 8.3, Table 6.5	M	

Capability Statement

Table 9: Paging Modes

Support	Item	Capability	Reference	Status	Comment
☑	9/1	Paging mode R0	[1] 8.3.1, Table 8.1	C.1	C.1: At least one of the paging scan modes must be supported.
☑	9/2	Paging mode R1	[1] 8.3.1, Table 8.1	C.1	C.1: At least one of the paging scan modes must be supported.
☑	9/3	Paging mode R2	[1] 8.3.1, Table 8.1	C.1	C.1: At least one of the paging scan modes must be supported.

Capability Statement

Table 9b: Paging Train Repetition

Support	Item	Capability	Reference	Status	Comment
☑	9b/1	Npage >= 1	[1] 8.3.2, Table 8.2	O	
☑	9b/2	Npage >= 128	[1] 8.3.2, Table 8.2	O	
☑	9b/3	Npage >= 256	[1] 8.3.2, Table 8.2	M	

Capability Statement

Table 9c: Synchronization Modes Support

Prerequisite: BB 2/6 "Support of Broadcast Data Link"

Support	Item	Capability	Reference	Status	Comment
☐	9c/1	Synchronization Train	[1] 8.3.5, [2] 3.3, Table 3.4, Item 130	C.1	C.1: Mandatory IF BB 3a/1 "Connectionless Slave Broadcast Transmitter" is supported, otherwise Excluded.

Support		Item	Capability	Reference	Status	Comment
☐		9c/2	Synchronization Scan	[1] 8.3.4, [2] 3.3, Table 3.4, Item 131	C.2	C.2: Mandatory IF BB 3a/2 "Connectionless Slave Broadcast Receiver" is supported, otherwise Excluded.

Capability Statement

Table 10: Inquiry Procedures

Support	Item	Capability	Reference	Status	Comment
☑	10/1	Inquiry	[1] 8.4.2	O	
☑	10/2	Inquiry scan with first FHS	[1] 8.4.2	O	
☑	10/5	Dedicated inquiry access code	[1] 6.3.1	O	
☑	10/6	Interlaced Scan during inquiry scan	[1] 2.5	O	
☑	10/7	Extended Inquiry Response	[1] 8.4.2, 8.4.3	C.1	C.1: Mandatory IF GAP 1/3 "Initiate LMP-Authentication" is supported, otherwise Optional.
☐	10/8	Train Nudging During Inquiry	[4] 8.4.2	O	
☐	10/9	Generalized Interlaced Inquiry Scan	[4] 8.4.1	O	

Capability Statement

Table 11: Piconet Capabilities

Support	Item	Capability	Reference	Status	Comment
☑	11/1	Broadcast messages	[1] 7.6.1 [1] 7.6.5	O	
☑	11/2	Point-to-multipoint connections	[1] 1	O	

Capability Statement

Table 12: Scatternet Capabilities

Support	Item	Capability	Reference	Status	Comment

Support	Item	Capability	Reference	Status
☑	12/1	Act as Master in one piconet and Slave in another piconet	[1] 1	O
☑	12/2	Act as Slave in more than one piconet	[1] 1	O

Capability Statement

Table 13: Synchronous Coding Schemes

Prerequisite: BB 2/2 "SCO link support"

Support	Item	Capability	Reference	Status	Comment
☑	13/1	A-law	[1] 9.1	O	
☑	13/2	u-law	[1] 9.1	O	
☑	13/3	CVSD	[1] 9.2	O	
☑	13/4	Transparent Synchronous Data	[1] 5.4, 5.5	O	

Capability Statement

Table 14: Erroneous Data Reporting

Support	Item	Capability	Reference	Status	Comment
☐	14/1	Erroneous Data Reporting for SCO	[1] 7.7	C.1	C.1: Optional IF HCI 9/6 "SCO data via HCI" is supported, otherwise Excluded.
☐	14/2	Erroneous Data Reporting for eSCO	[1] 7.7	C.2	C.2: Optional IF HCI 9/7 "eSCO data via HCI" is supported, otherwise Excluded.

Capability Statement

Table 16: Non-flushable Packet Boundary Flag

Support	Item	Capability	Reference	Status	Comment
☑	16/1	Non-flushable Packet Boundary Flag	[1] 7.6.3	C.1	C.1: Mandatory IF HCI 12/10 "Enhanced Flush Command" is supported; otherwise Optional.

Capability Statement

Table 17: Connection States

Support	Item	Capability	Reference	Status	Comment

	17/1	Sniff Subrating Mode	[3] 4.5.3.3	C.1	C.1: Mandatory IF LMP 2/8 "Sniff Mode" is supported; otherwise Optional.
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Capability Statement

Table 18: Coarse Clock Adjust

Support	Item	Capability	Reference	Status	Comment
☐	18/1	Coarse Clock Adjustment	[4] 8.6.10.1	O	

Capability Statement

Table 19: Slot Availability Mask

Support	Item	Capability	Reference	Status	Comment
☐	19/1	Slot Availability Mask	[5] 8.6.11	C.1	C.1: Excluded IF SUM ICS 21/14 "v4.2" is supported, otherwise Optional.

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