Bluetooth Network Encapsulation Protocol (BNEP)

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

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1 General principles

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 Versions

Table 0: X.Y Versions

Item	Version	Reference	Status
1	BNEP v1.0	[1]	M

2.2 Core Configuration

Table 0a: Core Configuration Requirements

Item	Core Configuration	Reference	Status
1	Protocol supported over BR/EDR	[1] 1.4	C.1, C.3
2	Protocol supported over LE	[1] 1.4	C.2

C.1: Excluded for this Protocol IF CORE 41/2 “LE Core Configuration” OR CORE 40/1 “Core-Controller”.

C.2: Excluded for this Protocol.

C.3: Mandatory for this Protocol.

2.3 Bluetooth Network Encapsulation Protocol Features

Table 1a: Bluetooth Network Encapsulation Features

Item	Capability	Reference	Status
1	BNEP Connection Setup	[1] 2.6.3, 2.6.2	M
2	BNEP Data Packet Reception	[1] 2.5, 2.7–2.9	M
3	BNEP General Ethernet Data Packet Transmission	[1] 2.5	C.1
3a	BNEP Compressed Packet Transmission	[1] 2.7	C.1
3b	BNEP Compressed Packet Transmission Source Only	[1] 2.8	O
3c	BNEP Compressed Packet Transmission Destination Only	[1] 2.9	O
4	BNEP Control Message Processing	[1] 2.6	M
5	BNEP Extension Header Processing	[1] 3.1–3.3, 2.6.2, 2.6.3	M
6	Network Protocol Filter Message Transmission	[1] 2.6.4, 2.6.5	O
7	Multicast Address Filter Message Transmission	[1] 2.6.4, 2.6.6	O

C.1: Mandatory to support at least one IF BNEP 1a/7 “Multicast Address Filter Message Transmission”, otherwise Optional.

3 References

[1] Bluetooth Network Encapsulation Protocol (BNEP) Specification

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0	2003-02-14	ICS Adopted
	1.0.1r1	2005-02-11	Editorial and format changes. Change document numbering.
1	1.0.1	2005-02-18	Prepare for publication.
	1.0.2r0	2005-09-29	TSE 823: Tables 2&3 to optionally support > 1 PANU
2	1.0.2	2005-10-12	Prepare for publication.
	1.0.3r0-2	2006-11-16-2007-01-08	TSE 1796: Table 2: Add 2 rows 6a and 6b, and footnote C4 for 6b. TSE 1894: Changes Tables 2, 3, and 4 to show LLMNR Sender and Responder support for IPv4 for IPv6 Changed adopted spec version from 1.1 to 1.0 Removed redundant reference section (MS)
3	1.0.3	2007-01-08	Prepare for publication.
	1.0.4r0	2008-02-01	TSE 2159: Table 3, 4, 5: Support for LLMNR Sender conditional
4	1.0.4	2008-04-01	Prepare for publication.
5	1.0.4a	2008-07-01	TSE 2632: Removed table number from first table introduced in v1.0.3
	1.0.5r0-1	2008-09-01 – 2008-12-01	TSE 2637; Table 2/9a, 14a: change footnotes, re-implement TSE 2632 with correct table numbering.
6	1.0.5	2008-12-01	Prepare for publication.
	1.0.6r0-1	2009-04-29 – 2009-06-04	TSE 2722: Clarification to TSE 2159 Tables 2, 3, 4 Correction to Table 4, C.2
7	1.0.6	2009-08-10	Prepare for publication.
	1.0.7r0	2011-11-10	TSE 4473: Table 1a; Add rows 3a, 3b TSE 4519: Table 2/8: modify, Table 3/6: remove
8	1.0.7	2012-03-30	Prepare for publication.
	1.0.8r01	2015-01-26	Update to current ICS template and conventions. TSE 6196: Add pre-requisites to tables.
	1.0.8r02	2015-06-01	Updated terminology from “PICS” to “ICS”
9	1.0.8	2015-07-14	Prepared for TCRL 2015-1 publication
	1.0.9r00	2015-10-05	TSE 6489: Added new item 1a/3c (BNEP Compressed Packet Transmission Destination Only); updated conditionals for items 1/3 and 1/3a.
10	1.0.9	2015-12-22	Prepared for TCRL 2015-2 publication.
	1.0.10r00	2018-04-04	TSE 10573 (rating 1): Template Conversion.
11	1.0.10	2018-07-01	Approved by BTI. Prepared for TCRL 2018-1 publication.

Publication Number	Revision Number	Date	Comments
	1.0.11r00	2018-10-03	TSE 10899 (rating 4): ICS: Revised Capability for Items 2/9, 2/14, 4/5, and 4/10. Deleted Items 3/7 and 3/12.
12	1.0.11	2018-11-21	Approved by BTI. Prepared for TCRL 2018-2 publication.
	1.0.12r00	2019-09-16	TSE 4382 (rating 2): Updated items in Tables 2, 3, and 4 to reflect that LLMNR is only an informational RFC. Updated template and copyright/legal info.
13	1.0.12	2020-01-07	Approved by BTI on 2019-11-17. Prepared for TCRL 2019-2 publication.
	p14r00–r01	2021-08-10 – 2021-12-03	TSE 17012 (rating 1): Split the BNEP ICS (Table 1a) from the PAN ICS into a separate document. Incorporated consistency checker editorials. Performed template-related fixes. Updated copyright page to align with v2 of the DNMD.
14	p14	2022-01-25	Approved by BTI on 2021-12-19. Prepared for TCRL 2021-2 publication.
	p15r00–r01	2025-02-24 – 2025-04-23	TSE 26900 (rating 2): Added “Versions” and “Core Configuration” sections, and added Tables 0 and 0a. Deleted “Bluetooth Network Encapsulation Protocol” section. Updated Reference column entries and conditional C.1 for Table 1a. Updated “References” section. Applied current ICS template.
15	p15	2025-07-08	Approved by BTI on 2025-05-30. Prepared for TCRL pkg100 publication.
	p16r00	2025-12-07 – 2026-01-07	TSE 28346 (rating 1): Updated the conditions in the transport table to make sure the layer is excluded when the design is an implementation of the Core-Controller Configuration by adding "OR CORE 40/1 “Core-Controller”" to an already excluded transport based on Core Configuration support.
16	p16	2026-02-17	Approved by BTI on 2026-01-22. Prepared for TCRL pkg102 publication.

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Name	Company
Tom Scribner	3COM Corporation
Barry Corlett	Agere Systems
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Horia Balog	Classwave Wireless Inc.
Conrad Maxwell	Conexant Systems
Mark Rison	CSR
Allan Bogeskov	Ericsson
Theo Borst	Ericsson

Name	Company
Per Johansson	Ericsson
Tero Kauppinen	Ericsson
Martin Kitchen	Ericsson
Jesper Krogh	Ericsson
Tony Larsson	Ericsson
Johan Sorensen	Ericsson
Dave Suvak	Extended Systems Inc.
Jean Tourrilhes	Hewlett Packard Corporation
Toru Aihara	International Business Machines Corporation
Chatschik Bisdikian	International Business Machines Corporation
Kris Fleming	Intel Corporation
Robert Hunter	Intel Corporation
Jon Inouye	Intel Corporation
Diego Melpignano	Philips Inc.
Eiji Kato	Matsushita Electric Industrial
Billy Brackenridge	Microsoft Corporation
Mike Foley	Microsoft Corporation
Dale Farnsworth	Motorola Inc.
Brian Redding	Motorola Inc.
Carmen Kuhl	Nokia Corporation
Jaakko Lipasti	Nokia Corporation
James Scales	Nokia Corporation
Markus Schetelig	Nokia Corporation
Sander van Valkenburg	Nokia Corporation
Steven Kenny	Norwood Systems
Rebecca Ostergaard	Norwood Systems
Graeme Reid	Norwood Systems
Darrell Goff	Rappore
Simon Harrison	Red-M Communications Ltd
Daniel Shaw	Red-M Communications Ltd
Pravin Bhagwat	ReefEdge, Inc.
Daryl Hlasny	Sharp Laboratories of America Inc.
Leonard Ott	Socket Communications Inc.
Wilhelm Hagg	Sony Corporation
Johannes Loebbert	Sony Corporation
Takashi Sasai	Sony Corporation
Mike Blackstock	Synchropoint Wireless, Inc.
Tatuya Jinmei	Toshiba Corporation
Kazuo Nogami	Toshiba Corporation
Yosuke Tajika	Toshiba Corporation

Name	Company
Jim Hobza	Widcomm Inc.
Ravindranath Singamneni	Widcomm Inc.