

Reference Time Update Service (RTUS)

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.

1.2 Enforcement of inter-layer dependencies

This ICS includes one or more tables with inter-layer dependencies (ILDs). ILDs are used for specification requirements that are dependent on other supporting specifications. ILDs can refer to an individual ICS item in a separate layer (individual ILD), or it can refer to the full layer (full-layer ILD).

ILDs residing in an X2Core layer will be enforced from the Bluetooth SIG qualification tool in the following conditions, depending on where the referred ILD is residing:

Referred ILD resides in	Individual ILD	Full-layer ILD
Controller layer	Core-Complete configuration, or Referred layer is supported	N/A
Lower HCI layer	HCI is supported	N/A
Upper HCI layer	Core-Host configuration, or UHCI is supported	N/A
Host layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	N/A
X2Core layer	Core-Host configuration, or Core-Complete configuration, or Referred layer is supported	Core-Host configuration, or Core-Complete configuration

2 ICS declarations

2.1 Versions

Table 0: X.Y Versions

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

2.2 Transports

Table 1: Transport Requirements

Item	Transport	Reference	Status
1	Service supported over BR/EDR	[1] 1.5	C.1
2	Service supported over LE	[1] 1.5	C.2, C.3

C.1: Excluded for this Service.

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

C.3: Mandatory for this Service.

2.3 Service requirements

Table 2: Service Requirements

Item	Capability	Reference	Status
1	Reference Time Update Service	[1] 2	M
2	Time Update Control Point Characteristic	[1] 3.1	M
3	Time Update State Characteristic	[1] 3.2	M
4	Write Time Update Control Point Characteristic	[1] 3.1, 3.2	M
5	Read Time Update State Characteristic	[1] 3.1, 3.2	M

2.4 GATT requirements

Table 3: GATT Requirements

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Server over LE	[1] 3	M	[2] GATT 1a/3
2	Write Without Response	[1] 1.4	M	[2] GATT 4/12

3 References

- [1] Reference Time Update Service Specification, Version 1.0
- [2] ICS Proforma for Generic Attribute Profile (GATT)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2011-09-15	Adopted by the Bluetooth SIG Board of Directors
	1.0.1r0	2011-11-11	TSE 4550: Table 1 change to align with LE Services/Profiles and BTI Standards
1	1.0.1	2012-03-30	Prepare for publication.
	1.0.2r00	2016-10-05	TSE 7546: New Table 0 added for Version RTUSv1.0; In Table 3, "Reference" entries for "Generic Attribute Profile Server" and "Write Without Response" updated; In "References" entries for ICS Proforma for Generic Attribute Profile (GATT) and Generic Access Profile (GAP), v4.0.1 or later and v4.0.0.0 restrictions, respectively, removed.
2	1.0.2	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication.
	1.0.2 edition 2r00	2018-11-26	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
	1.0.2 edition 2	2020-01-09	Updated copyright page and confidentiality markings to support new Documentation Marking Requirements, performed minor formatting updates, and accepted all tracked changes to prepare for edition 2 publication.
	p3r00	2022-10-27	TSE 20359 (rating 3): Updated to align with current ICS conventions/template. Removed Support columns. In Table 0, updated the table title and reference version title. In Table 1, updated the references and C.1. In Table 2, updated the capability and references. In Table 3, updated the capabilities and references and added an ILD column. Updated the references list. Added a Publication Number column to the Revision History. Revised the document numbering convention, setting the last release publication of 1.0.2 as p2. Performed additional template-related formatting fixes. Replaced the Bluetooth logo in the footer and updated the copyright page to align with v2 of the DNMD.
3	p3	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.
	p3ed2r00	2025-01-29	TSE 27097 (rating 1): Updated Table 0 title. Updated Table 1 item 2 status value and added conditionals C.2 and C.3. Updated Table 3 item 1 Capability and Inter-Layer Dependency entries. Editorials to align the document with the current ICS template.
	p3 edition 2	2025-03-14	Approved by BTI on 2025-03-11. Prepared for edition 2 publication.

Publication Number	Revision Number	Date	Comments
	p4r00-r01	2025-12-04 – 2026-01-09	TSE 28169 (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.
4	p4	2026-02-17	Approved by BTI on 2026-01-21. Prepared for TCRL pkg102 publication.

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