

Alert Notification Profile (ANP)

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

Table 1.1: Enforcement of an ILD within the Bluetooth SIG qualification tool

2 ICS declarations

2.1 Roles and Versions

Table 0: X.Y Versions

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

Table 1: Role Requirements

Item	Role	Reference	Status
1	Alert Notification Server	[1] 2	C.1
2	Alert Notification Client	[1] 2	C.1

C.1: Mandatory to support at least one.

2.2 Transports

Table 2: Transport Requirements

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.5	C.1
2	Profile supported over LE	[1] 2.5	C.2, C.3

C.1: Excluded for this Profile.

C.2: Excluded for this Profile IF CORE 41/1 “BR/EDR Core Configuration”.

C.3: Mandatory for this Profile.

2.3 Alert Notification Server Role

2.3.1 Services – Alert Notification Server Role

Table 3: Service – Alert Notification Server Role

Prerequisite: ANP 1/1 “Alert Notification Server”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Alert Notification Service	[1] 3.1	M	[2] ANS 2/1

2.3.2 Features – Alert Notification Server Role

Table 4: Features – Alert Notification Server Role

Prerequisite: ANP 1/1 “Alert Notification Server”

Item	Capability	Reference	Status
1	Verify Bond Status on Reconnection	[1] 5.2.3	M

2.3.3 GAP requirements – Alert Notification Server Role

Table 5: GAP Requirements – Alert Notification Server Role

Prerequisite: ANP 1/1 “Alert Notification Server”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Central	[1] 2.4	M	[4] GAP 5/4 OR GAP 38/4
2	Peripheral	[1] 2.4	O	[4] GAP 5/3 OR GAP 38/3
3	Bondable mode (Central)	[1] 5	M	[4] GAP 34/2
4	Bondable mode (Peripheral)	[1] 5	C.1	[4] GAP 24/2
5	LE security mode 1 (Central)	[1] 6	M	[4] GAP 35/1
6	LE security mode 1 (Peripheral)	[1] 6	C.1	[4] GAP 25/1
7	Unauthenticated Pairing (LE security mode 1 level 2) (Central)	[1] 6	M	[4] GAP 35/8
8	Unauthenticated Pairing (LE security mode 1 level 2) (Peripheral)	[1] 6	C.2	[4] GAP 25/8
9	Authenticated Pairing (LE security mode 1 level 3) (Central)	[1] 6	M	[4] GAP 35/7
10	Authenticated Pairing (LE security mode 1 level 3) (Peripheral)	[1] 6	C.2	[4] GAP 25/7

C.1: Mandatory IF ANP 5/2 “Peripheral”, otherwise not defined.

C.2: Mandatory to support at least one IF ANP 5/2 “Peripheral”, otherwise not defined.

Table 6: No longer used

2.4 Alert Notification Client Role

2.4.1 Discover Services and Characteristics – Alert Notification Client Role

Table 7: Service – Alert Notification Client Role

Prerequisite: ANP 1/2 “Alert Notification Client”

Item	Capability	Reference	Status
1	Discover Alert Notification Service	[1] 4.1	M
2	Discover Supported New Alert Category characteristic	[1] 4.2	M
3	Discover Supported Unread Alert Category characteristic	[1] 4.2	M
4	Discover Alert Notification CP characteristic	[1] 4.2	M
5	Discover New Alert characteristic	[1] 4.2	M
6	Discover New Alert characteristic- Client Characteristic Configuration Descriptor	[1] 4.2	M
7	Discover Unread Alert Status characteristic	[1] 4.2	O
8	Discover Unread Alert Status characteristic- Client Characteristic Configuration Descriptor	[1] 4.2	C.1

C.1: Mandatory IF ANP 7/7 “Discover Unread Alert Status characteristic”, otherwise Excluded.

2.4.2 Features – Alert Notification Client Role

Table 8: Features – Alert Notification Client Role

Prerequisite: ANP 1/2 “Alert Notification Client”

Item	Capability	Reference	Status
1	Supported New Alert Category characteristic, read using handle	[1] 4.3	M
2	Supported Unread Alert Category characteristic, read using handle	[1] 4.4	O
3	Alert Notification Control Point characteristic, write	[1] 4.9	M
4	New Alert characteristic configuration, enable notification with 0x0001	[1] 4.6	M
4a	New Alert characteristic configuration, disable notification with 0x0000	[1] 4.6	O
5	Receive Notification from New Alert characteristic	[1] 4.5	M
6	Unread Alert Status characteristic configuration, enable notification with 0x0001	[1] 4.8	C.1
6a	Unread Alert Status characteristic configuration, disable notifications with 0x0000	[1] 4.8	O
7	Receive Notification from Unread Alert Status characteristic	[1] 4.7	O
8	Check the New Alert Characteristic after Reconnection	[1] 4.10	M
9	Check the Unread Alert Status Characteristic after Reconnection	[1] 4.11	C.1
10	Check the Supported Categories for New Alerts after Connection	[1] 4.12	M
11	Check the Supported Categories for Unread Alert after Connection	[1] 4.13	C.2
12	Verify Bond Status on Reconnection	[1] 5.2.3	M

C.1: Mandatory IF ANP 8/7 “Receive Notification from Unread Alert Status characteristic”, otherwise Excluded.

C.2: Mandatory IF ANP 8/2 “Supported Unread Alert Category characteristic, read using handle”, otherwise Excluded.

2.4.3 GATT requirements – Alert Notification Client Role

Table 9: GATT Requirements – Alert Notification Client Role

Prerequisite: ANP 1/2 “Alert Notification Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	GATT Client over LE	[1] 2.5	M	[3] GATT 1a/1
2	No longer used	N/A	N/A	N/A
3	Discover All Primary Services	[1] 7	C.1	[3] GATT 3/2
4	Discover Primary Services by Service UUID	[1] 7	C.1	[3] GATT 3/3

Item	Capability	Reference	Status	Inter-Layer Dependency
5	Discover All Characteristics of a Service	[1] 7	C.2	[3] GATT 3/5
6	Discover Characteristics by UUID	[1] 7	C.2	[3] GATT 3/6
7	Discover All Characteristic Descriptors	[1] 7	M	[3] GATT 3/7
8	Read Characteristic Value	[1] 7	M	[3] GATT 3/8
9	Single Notification	[1] 7	M	[3] GATT 3/17
10	No longer used	N/A	N/A	N/A
11	Write Characteristic Descriptors	[1] 7	M	[3] GATT 3/21
12	Write Characteristic Value	[1] 7	M	[3] GATT 3/14

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one.

2.4.4 GAP requirements – Alert Notification Client Role

Table 10: GAP Requirements – Alert Notification Client Role

Prerequisite: ANP 1/2 “Alert Notification Client”

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 2.4	M	[4] GAP 5/3 OR GAP 38/3
2	Central	[1] 2.4	O	[4] GAP 5/4 OR GAP 38/4
3	Bondable mode (Peripheral)	[1] 5	M	[4] GAP 24/2
4	Bondable mode (Central)	[1] 5	C.1	[4] GAP 34/2
5	LE security mode 1 (Peripheral)	[1] 6	M	[4] GAP 25/1
6	LE security mode 1 (Central)	[1] 6	C.1	[4] GAP 35/1
7	Unauthenticated Pairing (LE security mode 1 level 2) (Central)	[1] 6	C.1	[4] GAP 35/8
8	Unauthenticated Pairing (LE security mode 1 level 2) (Peripheral)	[1] 6	C.2	[4] GAP 25/8
9	Authenticated Pairing (LE security mode 1 level 3) (Central)	[1] 6	C.1	[4] GAP 35/7
10	Authenticated Pairing (LE security mode 1 level 3) (Peripheral)	[1] 6	C.2	[4] GAP 25/7

C.1: Mandatory IF ANP 10/2 “Central”, otherwise not defined.

C.2: Mandatory to support at least one.

Table 11: No longer used

3 References

- [1] Alert Notification Profile, Version 1.0
- [2] ICS Proforma for Alert Notification Service (ANS)
- [3] ICS Proforma for Generic Attribute Profile (GATT)
- [4] ICS Proforma for Generic Access Profile (GAP)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.0.0	2011-09-15	Adopted by the Bluetooth Board of Directors
	1.0.1r0	2011-11-04	TSE 4557: Updates to tables 2, 5, 9, and 10 to align with LE profiles/services and BTI standards:
1	1.0.1	2012-03-30	Prepare for publication.
2	1.0.2r0	2012-05-07	TSE 4953: Table 11, Footnote
	1.0.3r1	2012-08-30	TSE 4832: Changes in TS document TCMT added 4a and 6a to to optional, needed to be updated as well in 3.2 Features – Alert Notification Client Role
	1.0.3r2	2012-10-30	Added Version 0 Table.
3	1.0.3	2012-10-30	Prepare for Publication
	1.0.4r1	2013-08-15	TCRL 2013-2 TSE 5207: Updated Table 8, item 4a from "enable" to "disable"
4	1.0.4	2013-12-03	Prepare for Publication
	1.0.5r00	2016-07-28	TSE 7395: Updated Table 11, C.1.
5	1.0.5	2016-12-13	Approved by BTI. Prepared for TCRL 2016-2 publication.
	1.0.5 edition 2r00	2018-11-20	Editorial changes only. Template updated. Revision History and contributors moved to the end of the document.
	1.0.5 edition 2	2019-11-11	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.
	p6r00–r02	2022-07-21 – 2022-11-09	TSE 19160 (rating 1): Updated to align with current ICS conventions/template. Removed Support columns and added Inter-Layer Dependency columns. In Table 5, added Items 7–10 (GAP references) and C.2. Deleted Table 6 (SM references) because no longer used. In Table 9, updated GATT references in Items 1 and 2. In Table 10, added Items 7–10 (GAP references) and C.2. Deleted Table 11 (SM references) because no longer used. Updated references list. Revised document numbering convention, setting last release publication of 1.0.5 as p5; added Publication Number column to Revision History.
6	p6	2023-02-07	Approved by BTI on 2022-12-28. Prepared for TCRL 2022-2 publication.

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	p7r00-r01	2025-04-23 – 2025-04-24	TSE 27345 (rating 1): Updated the Status value for ANP 2/2 and added conditions C.2 and C.3. Incorporated editorials to align the document with the latest ICS template, including updates to Section 1 and the addition of a section heading for the ICS declarations section.
7	p7	2025-07-08	Approved by BTI on 2025-06-15. Prepared for TCRL pkg100 publication.

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