

Alert Notification Profile (ANP)

Bluetooth® Implementation Conformance Statement (ICS) Proforma

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1 Identification of the implementation

1.1 Implementation Under Test (IUT) identification

Identification of the Implementation Under Test (IUT) is to be filled in to provide as much detail as possible regarding version numbers and configuration options.

An ICS contact person to respond to queries regarding information supplied in this ICS proforma is named in the Declaration of Compliance: Summary of Selected Specifications in Implementation.

1.2 Roles and Versions

Table 0: Major Versions (X.Y)

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 of ANP 1/1 “Alert Notification Server” OR ANP 1/2 “Alert Notification Client”.

1.3 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	M

C.1: Excluded for this Profile.

1.4 Alert Notification Server Role

1.4.1 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

1.4.2 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

1.4.3 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 of ANP 5/8 “Unauthenticated Pairing (LE security mode 1 level 2) (Peripheral)” OR ANP 5/10 “Authenticated Pairing (LE security mode 1 level 3) (Peripheral)” IF ANP 5/2 “Peripheral”, otherwise not defined.

Table 6: No longer used

1.5 Alert Notification Client Role

1.5.1 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



Item	Capability	Reference	Status
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.

1.5.2 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.

1.5.3 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
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	Notifications	[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 of ANP 9/3 “Discover All Primary Services” OR ANP 9/4 “Discover Primary Services by Service UUID”.

C.2: Mandatory to support at least one of ANP 9/5 “Discover All Characteristics of a Service” OR ANP 9/6 “Discover Characteristics by UUID”.

1.5.4 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

Item	Capability	Reference	Status	Inter-Layer Dependency
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 of ANP 10/8 “Unauthenticated Pairing (LE security mode 1 level 2) (Peripheral)” OR ANP 10/10 “Authenticated Pairing (LE security mode 1 level 3) (Peripheral)”.

Table 11: No longer used

2 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)

3 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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