

# Generic Health Sensor Profile (GHSP)

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

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# Contents

<b>1</b>	<b>General principles .....</b>	<b>4</b>
1.1	Implementation Under Test (IUT) identification .....	4
1.2	Enforcement of inter-layer dependencies .....	4
<b>2</b>	<b>ICS declarations.....</b>	<b>5</b>
2.1	Versions .....	5
2.2	Transports.....	5
2.3	Roles .....	5
2.4	GHS Server.....	6
2.4.1	Service and profile references .....	6
2.4.2	GHS Service .....	6
2.4.3	Device Information Service requirements .....	7
2.4.4	Elapsed Time Service requirements .....	7
2.4.5	Reconnection Configuration Profile requirements.....	7
2.4.6	User Data Service requirements .....	8
2.4.7	GAP requirements .....	8
2.5	GHS Client .....	8
2.5.1	Service and profile references .....	8
2.5.1.1	GHS Service requirements .....	8
2.5.1.2	Features GHS Client .....	9
2.5.1.3	GHS RACP .....	10
2.5.2	Device Information Service requirements .....	11
2.5.3	Elapsed Time Service requirements .....	12
2.5.4	Battery Service requirements.....	12
2.5.5	Reconnection Configuration Profile requirements.....	12
2.5.6	User Data Service requirements .....	12
2.5.7	GATT requirements .....	13
2.5.8	GAP requirements .....	14
<b>3</b>	<b>References .....</b>	<b>15</b>
<b>4</b>	<b>Revision history and acknowledgments .....</b>	<b>16</b>

# 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 Versions

**Table 0a: X.Y Versions**

*Prerequisite: GHSP 3/1 “GHS Server”*

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

**Table 1a: X.Y.Z Versions**

Table number reserved but not yet in use.

**Table 0b: X.Y Versions**

*Prerequisite: GHSP 3/2 “GHS Client”*

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

**Table 1b: X.Y.Z Versions**

Table number reserved but not yet in use.

### 2.2 Transports

**Table 2: Transport Requirements**

Item	Transport	Reference	Status
1	Profile supported over BR/EDR	[1] 2.6	C.1, C.3
2	Profile supported over LE	[1] 2.6	C.2, C.3

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

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

C.3: Mandatory to support at least one.

### 2.3 Roles

**Table 3: Role Requirements**

Item	Role	Reference	Status
1	GHS Server	[1] 2.1	C.1
2	GHS Client	[1] 2.1	C.1

C.1: Mandatory to support at least one.

## 2.4 GHS Server

### 2.4.1 Service and profile references

**Table 4: Services and Profile Included in GHS Server**

*Prerequisite: GHSP 3/1 “GHS Server”*

Item	Service	Reference	Status	Inter-Layer Dependency
1	Generic Health Sensor Service	[1] 3.1	M	[3] GHSS
2	Device Information Service	[1] 3.2	M	[4] DIS
3	Elapsed Time Service	[1] 3.3	C.1	[5] ETS
4	Battery Service	[1] 3.4	O	[6] BAS
5	Reconnection Configuration Profile	[1] 3.5	O	[7] RCP
6	User Data Service	[1] 3.6	O	[9] UDS
7	Reconnection Configuration Service	[1] 3.5	O	[8] RCS

C.1: Mandatory IF GHSP 5/8 “Report observations with time stamps”, otherwise Optional.

### 2.4.2 GHS Service

**Table 5: Main Features of GHS Service**

*Prerequisite: GHSP 3/1 “GHS Server”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Service UUID	[1] 3.1.1.1	C.1	[11] GAP 20a/1
2	Service Data	[1] 3.1.1.2	C.2	[11] GAP 20a/10
3	Local Name	[1] 3.1.1.3	C.1	[11] GAP 20a/2
4	LE GATT Security Levels	[1] 3.1.2	C.1	[11] GAP 27/11
5	Report live observations	[1] 3.1.3	O	[3] GHSS 3/2
6	Report temporarily stored observations	[1] 3.1.3	O	[3] GHSS 3/3
7	Report stored observations	[1] 3.1.3	O	[3] GHSS 3/4
8	Report observations with time stamps	[1] 3	C.3	N/A
9	Unique Device Identifier (UDI) assigned	[1] 3.2	O	N/A
10	Multiple users	[1] 3.6, 4.5.8	O	N/A
11	Multiple users with Concurrent Access	[1] 3.6, 4.5.8	C.4	N/A
12	Patient identifier	[1] 3.6	C.5	N/A
13	Support for Multiple Bonds	[1] 4.4.9	O	N/A
14	Support for Single Bond	[1] 4.4.9	O	N/A
15	Generation of observations for a user independent of consent	[1] 3.6, 4.5	C.4	N/A
16	LE GATT Security Levels characteristic in GHS Service	[1] 3.1.2	C.6	N/A
17	Delete Stored Records	[1] 4.4.9	O	[3] GHSS 7/3

- C.1: Optional IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.
- C.2: Mandatory IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.
- C.3: Mandatory IF GHSP 5/6 “Report temporarily stored observations” OR GHSP 5/7 “Report stored observations”, otherwise Optional.
- C.4: Optional IF GHSP 5/10 “Multiple users”, otherwise Excluded.
- C.5: Mandatory IF GHSP 4/6 “User Data Service”, otherwise Optional.
- C.6: Excluded IF GHSP 5/4 “LE GATT Security Levels”, otherwise Optional.

### 2.4.3 Device Information Service requirements

**Table 6: Device Information Service Requirements**

*Prerequisite: GHSP 4/2 “Device Information Service”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Manufacturer Name String Characteristic	[1] 3.2	M	[4] DIS 2/2
2	Model Number String Characteristic	[1] 3.2	M	[4] DIS 2/3
3	Serial Number String Characteristic	[1] 3.2	C.1	[4] DIS 2/4
4	System ID Characteristic	[1] 3.2	C.1	[4] DIS 2/8
5	UDI for Medical Devices Characteristic	[1] 3.2	C.1, C.2	[4] DIS 2/12
6	Other DIS Characteristic	[1] 3.2	O	N/A

- C.1: Mandatory to support at least one.
- C.2: Optional IF GHSP 5/9 “Unique Device Identifier (UDI) assigned”, otherwise not defined.

### 2.4.4 Elapsed Time Service requirements

**Table 7: Elapsed Time Service Requirements**

*Prerequisite: GHSP 4/3 “Elapsed Time Service”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Current Elapsed Time characteristic with write	[1] 3.3	O	[5] ETS 4/2
2	Update Time Value Via UI	[1] 3.3	O	[5] ETS 3/7
3	TZ/DST offset	[1] 3.3	O	[5] ETS 3/4

### 2.4.5 Reconnection Configuration Profile requirements

**Table 8: Reconnection Configuration Profile requirements**

*Prerequisite: GHSP 4/5 “Reconnection Configuration Profile”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Reconnection Configuration Server	[1] 3.5	M	[7] RCP 1/1

## 2.4.6 User Data Service requirements

**Table 9: User Data Service Requirements**

*Prerequisite: GHSP 4/6 “User Data Service”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	First Name Characteristic	[1] 3.6	O	[9] UDS 4/4
2	Last Name Characteristic	[1] 3.6	O	[9] UDS 4/5

## 2.4.7 GAP requirements

**Table 10: GAP Requirements**

*Prerequisite: GHSP 3/1 “GHS Server”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Peripheral	[1] 2.4	C.1	[11] GAP 5/3
2	Bondable mode	[1] 6.1	C.2	[11] GAP 24/2

C.1: Mandatory IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.

C.2: Optional IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.

## 2.5 GHS Client

### 2.5.1 Service and profile references

**Table 11: Services and Profile Included in GHS Client**

*Prerequisite: GHSP 3/2 “GHS Client”*

Item	Service	Reference	Status	Inter-Layer Dependency
1	Discover Generic Health Sensor Service	[1] 4, 4.4	M	N/A
2	Discover Device Information Service	[1] 4, 4.8	M	N/A
3	Discover Elapsed Time Service	[1] 4, 4.6	O	N/A
4	Discover Battery Service	[1] 4, 4.9	O	N/A
5	Reconnection Configuration Profile	[1] 4, 4.7	O	[7] RCP
6	Discover User Data Service	[1] 4, 4.5	O	N/A

#### 2.5.1.1 GHS Service requirements

**Table 12: GHS Service Requirements**

*Prerequisite: GHSP 11/1 “Discover Generic Health Sensor Service”*

Item	Capability	Reference	Status
1	Discover Health Sensor Features characteristic	[1] 4, 4.3	O
2	Discover Observation Schedule descriptor	[1] 4, 4.3	O

Item	Capability	Reference	Status
3	Discover Valid Range and Accuracy descriptor	[1] 4, 4.3	O
4	Discover Live Health Observations characteristic	[1] 4, 4.3	C.1
5	Discover Stored Health Observations characteristic	[1] 4, 4.3	C.2
6	Discover RACP characteristic	[1] 4, 4.3	C.2
7	Discover GHS Control Point characteristic	[1] 4, 4.3	C.1
8	Discover Observation Schedule Changed characteristic	[1] 4, 4.3	O

C.1: Mandatory IF GHSP 13/14 “Live health observations”, otherwise Excluded.

C.2: Mandatory IF GHSP 13/15 “Stored health observations”, otherwise Excluded.

### 2.5.1.2 Features GHS Client

**Table 13: Features GHS Client**

*Prerequisite: GHSP 11/1 “Discover Generic Health Sensor Service”*

Item	Capability	Reference	Status
1	Configure and receive Live Health Observations characteristic indications	[1] 4.4.5	C.1
2	Configure and receive Live Health Observations characteristic notifications	[1] 4.4.5	C.1
3	Configure and receive GHS Control Point characteristic indications	[1] 4.4.5	C.1
4	Configure and receive Stored Health Observations characteristic notifications	[1] 4.4.6	C.2
5	Configure and receive Stored Health Observations characteristic indications	[1] 4.4.6	C.2
6	Configure and receive RACP characteristic indications	[1] 4.4.6	C.2
7	Read Health Sensor Features characteristic	[1] 4.4.12.1	C.3
8	Read Long Health Sensor Features characteristic	[1] 4.4.12.1	C.3
9	Configure and receive Health Sensor Features characteristic indications	[1] 4.4.12.1	C.3
10	Read Valid Range and Accuracy descriptor	[1] 4.4.12.2	C.4
11	Configure and receive Observation Schedule Changed characteristic indications	[1] 4.4.12.3	C.5
12	Read Observation Schedule descriptors	[1] 4.4.12.3	C.6
13	Write Observation Schedule descriptor	[1] 4.4.12.3	C.6
14	Live health observations	[1] 4, 4.4	C.7
15	Stored health observations	[1] 4, 4.4	C.7

C.1: Mandatory IF GHSP 12/4 “Discover Live Health Observations characteristic”, otherwise Excluded.

C.2: Mandatory IF GHSP 12/5 “Discover Stored Health Observations characteristic”, otherwise Excluded.

C.3: Optional IF GHSP 12/1 “Discover Health Sensor Features characteristic”, otherwise Excluded.

C.4: Optional IF GHSP 12/3 “Discover Valid Range and Accuracy descriptor”, otherwise Excluded.

C.5: Optional IF GHSP 12/8 “Discover Observation Schedule Changed characteristic”, otherwise Excluded.

C.6: Optional IF GHSP 12/2 “Discover Observation Schedule descriptor”, otherwise Excluded.



C.7: Mandatory to support at least one.

### 2.5.1.3 GHS RACP

**Table 14: GHS RACP**

*Prerequisite: GHSP 12/6 “Discover RACP characteristic”*

Item	Capability	Reference	Status
1	Report Number of Stored Records	[1] 4.4.9.2 [2] 3.4.2	M
2	Combined Report	[1] 4.4.9.3 [2] 3.4.2	M
3	Delete Stored Records	[1] 4.4.9.4 [2] 3.4.2	O
4	Abort Operation	[1] 4.4.9.5 [2] 3.4.2	O

**Table 15: GHS RACP – Combined Report and Report Number of Stored Records Operators with respective Operand Filter Types**

*Prerequisite: GHSP 12/6 “Discover RACP characteristic”*

Item	Capability	Reference	Status
1	All records Operator	[1] 4.4.8 [2] 3.4.2	M
2	Greater than or equal to Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	M
3	Greater than or equal to Operator with Time Filter Operand	[1] 4.4.8 [2] 3.4.2	O
4	Less than or equal to Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	O
5	Less than or equal to Operator with Time Filter Operand	[1] 4.4.8 [2] 3.4.2	C.1
6	Within range of (inclusive) Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	O
7	Within range of (inclusive) Operator Time Filter Operand	[1] 4.4.8 [2] 3.4.2	C.2
8	First record Operator	[1] 4.4.8 [2] 3.4.2	O
9	Last record Operator	[1] 4.4.8 [2] 3.4.2	O

C.1: Optional IF GHSP 15/4 “Less than or equal to Operator with Record Number Operand”, otherwise Excluded.

C.2: Optional IF GHSP 15/6 “Within range of (inclusive) Operator with Record Number Operand”, otherwise Excluded.

**Table 16: GHS RACP – Delete Stored Records Operators with respective Operand Filter Types***Prerequisite: GHSP 14/3 “Delete Stored Records”*

Item	Capability	Reference	Status
1	All records Operator	[1] 4.4.8 [2] 3.4.2	M
2	Greater than or equal to Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	O
3	Greater than or equal to Operator with Time Filter Operand	[1] 4.4.8 [2] 3.4.2	C.1
4	Less than or equal to Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	O
5	Less than or equal to Operator with Time Filter Operand	[1] 4.4.8 [2] 3.4.2	C.2
6	Within range of (inclusive) Operator with Record Number Operand	[1] 4.4.8 [2] 3.4.2	O
7	Within range of (inclusive) Operator with Time Filter Operand	[1] 4.4.8 [2] 3.4.2	C.3
8	First record Operator	[1] 4.4.8 [2] 3.4.2	O
9	Last record Operator	[1] 4.4.8 [2] 3.4.2	O

C.1: Optional IF GHSP 16/2 “Greater than or equal to Operator with Record Number Operand”, otherwise Excluded.

C.2: Optional IF GHSP 16/4 “Less than or equal to Operator with Record Number Operand”, otherwise Excluded.

C.3: Optional IF GHSP 16/6 “Within range of (inclusive) Operator with Record Number Operand”, otherwise Excluded.

## 2.5.2 Device Information Service requirements

**Table 17: Device Information Service Requirements***Prerequisite: GHSP 11/2 “Discover Device Information Service”*

Item	Capability	Reference	Status
1	Discover Manufacturer Name String characteristic	[1] 4, 4.3	M
2	Discover Model Number String characteristic	[1] 4, 4.3	M
3	Discover Serial Number String characteristic	[1] 4, 4.3	M
4	Discover Firmware Revision String characteristic	[1] 4, 4.3	M
5	Discover System ID characteristic	[1] 4, 4.3	M
6	Discover Hardware Revision String characteristic	[1] 4, 4.3	O
7	Discover Software Revision String characteristic	[1] 4, 4.3	O
8	Discover UDI for Medical Devices characteristic	[1] 4, 4.3	M

### 2.5.3 Elapsed Time Service requirements

**Table 18: Elapsed Time Service Requirements**

*Prerequisite: GHSP 11/3 “Discover Elapsed Time Service”*

Item	Capability	Reference	Status
1	Discover Current Elapsed Time characteristic	[1] 4	O
2	Read Current Elapsed Time characteristic	[1] 4.6	O
3	Configure and receive Current Elapsed Time characteristic indications	[1] 4.6	O
4	Write to Current Elapsed Time characteristic	[1] 4.6	O

### 2.5.4 Battery Service requirements

**Table 19: Battery Service Requirements**

*Prerequisite: GHSP 11/4 “Discover Battery Service”*

Item	Capability	Reference	Status
1	Discover Battery Level characteristic	[1] 4	O
2	Discover Battery Level Status characteristic	[1] 4	O
3	Discover Battery Information characteristic	[1] 4	O
4	Read Battery Service characteristics	[1] 4.9	O
5	Configure and receive Battery Service characteristics for indications, notifications, or broadcast	[1] 4.9	O

### 2.5.5 Reconnection Configuration Profile requirements

**Table 20: Reconnection Configuration Profile Requirements**

*Prerequisite: GHSP 11/5 “Reconnection Configuration Profile”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Reconnection Configuration Client	[1] 4, 4.7	O	[7] RCP 1/2

### 2.5.6 User Data Service requirements

**Table 21: User Data Service Requirements**

*Prerequisite: GHSP 11/6 “Discover User Data Service”*

Item	Capability	Reference	Status
1	Discover User Control Point characteristic	[1] 4, 4.5.5	M
2	Discover User Index characteristic	[1] 4, 4.5.2	M
3	Discover Registered User characteristic	[1] 4, 4.5.4	M
4	Discover Database Change Increment characteristic	[1] 4, 4.5.3	M

**Table 22: Features of User Data Service***Prerequisite: GHSP 11/6 “Discover User Data Service”*

Item	Capability	Reference	Status
1	Read UDS Characteristics	[1] 4.5.1	O
2	Write UDS Characteristics	[1] 4.5.1	O
3	Read Long UDS Characteristics	[1] 4.5.1	O
4	Write Long UDS Characteristics	[1] 4.5.1	O
5	Caching of Consent Code	[1] 4.5.1	O
6	Read User Index characteristic	[1] 4.5.2	O
7	Configure and receive Database Change Increment notifications	[1] 4.5.3	C.1
8	Read Database Change Increment characteristic	[1] 4.5.3	C.1
9	Write Database Change Increment characteristic	[1] 4.5.3	C.1
10	User Data Synchronization Feature	[1] 4.5.3, 4.5.7	C.2
11	Register New User	[1] 4.5.5.1, 4.5.5.2.1	M
12	Consent	[1] 4.5.5.1, 4.5.5.2.2	M
13	Delete User Data	[1] 4.5.5.1, 4.5.5.2.3	M
14	List All Users	[1] 4.5.5.1, 4.5.5.2.4	O
15	Delete User(s)	[1] 4.5.5.1, 4.5.5.2.5	O

C.1: Mandatory IF GHSP 22/10 “User Data Synchronization Feature”, otherwise Optional.

C.2: Mandatory IF GHSP 22/2 “Write UDS Characteristics”, otherwise Optional.

## 2.5.7 GATT requirements

**Table 23: GATT Requirements***Prerequisite: GHSP 3/2 “GHS Client”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	No longer used	N/A	N/A	N/A
1a	GATT Client over BR/EDR	[1] 2.1	C.5	[10] GATT 1a/2
1b	GATT Client over LE	[1] 2.1	C.6	[10] GATT 1a/1
2	Discover All Primary Services	[1] 4.1	C.1	[10] GATT 3/2
3	Discover Primary Services by Service UUID	[1] 4.1	C.1	[10] GATT 3/3
4	Discover All Characteristics of a Service	[1] 4.1	C.2	[10] GATT 3/5
5	Discover Characteristics by UUID	[1] 4.1	C.2	[10] GATT 3/6
6	Discover All Characteristic Descriptors	[1] 4.1	M	[10] GATT 3/7
7	Single Notification	[1] 4.1	M	[10] GATT 3/17
8	Indications	[1] 4.1	M	[10] GATT 3/18
9	Read Characteristic Descriptors	[1] 4.1	M	[10] GATT 3/19
10	Write Characteristic Descriptors	[1] 4.1	M	[10] GATT 3/21

Item	Capability	Reference	Status	Inter-Layer Dependency
11	Read Characteristic Value	[1] 4.1	M	[10] GATT 3/8
12	Write Characteristic Value	[1] 4.1	M	[10] GATT 3/14
13	Read Long Characteristic Values	[1] 4.1	C.3	[10] GATT 3/10
14	Write Long Characteristic Values	[1] 4.1	C.4	[10] GATT 3/15
15	Find Included Services	[1] 4.1	O	[10] GATT 3/4

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one.

C.3: Mandatory IF GHSP 13/8 “Read Long Health Sensor Features characteristic” OR GHSP 22/3 “Read Long UDS Characteristics”, otherwise not defined.

C.4: Mandatory IF GHSP 22/4 “Write Long UDS Characteristics”, otherwise not defined.

C.5: Mandatory IF GHSP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

C.6: Mandatory IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.

### 2.5.8 GAP requirements

**Table 24: GAP Requirements**

*Prerequisite: GHSP 3/2 “GHS Client”*

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Central	[1] 2.4	C.1	[11] GAP 5/4
2	Bondable mode (LE)	[1] 6.2	C.2	[11] GAP 34/2
3	Bondable mode (BR/EDR)	[1] 6.3	C.3	[11] GAP 1/7
4	Initiation of general bonding	[1] 6.3	C.3	[11] GAP 3/5

C.1: Mandatory IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.

C.2: Optional IF GHSP 2/2 “Profile supported over LE”, otherwise not defined.

C.3: Optional IF GHSP 2/1 “Profile supported over BR/EDR”, otherwise not defined.

### 3 References

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- [1] Generic Health Sensor Profile Specification, Version 1.0
- [2] Generic Health Sensor Service Specification, Version 1.0
- [3] ICS Proforma for Generic Health Sensor Service (GHSS)
- [4] ICS Proforma for Device Information Service (DIS)
- [5] ICS Proforma for Elapsed Time Service (ETS)
- [6] ICS Proforma for Battery Service (BAS)
- [7] ICS Proforma for Reconnection Configuration Profile (RCP)
- [8] ICS Proforma for Reconnection Configuration Service (RCS)
- [9] ICS Proforma for User Data Service (UDS)
- [10] ICS Proforma for Generic Attribute Profile (GATT)
- [11] ICS Proforma for Generic Access Profile (GAP)

## 4 Revision history and acknowledgments

### Revision History

Publication Number	Revision Number	Date	Comments
0	p0	2023-06-13	Approved by BTI on 2023-05-28. GHSP v1.0 adopted by the BoD on 2023-06-13. Prepared for initial publication.
	p1r00–r01	2024-03-20 – 2024-03-26	TSE 25100 (rating 2): In Table 5, added item GHSP 5/17, an ILD to GHSS 7/3.
1	p1	2024-07-01	Approved by BTI on 2024-04-21. Prepared for TCRL 2024-1 publication.
	p2r00–r01	2025-01-28 – 2025-02-18	TSE 27121 (rating 2): Updated status values and conditional C.1 and added conditionals C.2 and C.3 for Table 2. Marked item 1 as no longer used, added items 1a and 1b, updated item 7, and added conditionals C.5 and C.6 for Table 23.
2	p2	2025-07-08	Approved by BTI on 2025-06-15. Prepared for TCRL pkg100 publication.
	p3r00	2025-07-18	TSE 27553 (rating 1): Updated ILD in GHSP 10/1 and GHSP 24/1.
3	p3	2025-11-04	Approved by BTI on 2025-10-02. Prepared for TCRL pkg101 publication.

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