Synchronization Profile (SYNC)

***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 Versions

Table 0: X.Y Versions

Item	Version	Reference	Status
1	SYNC v1.1**	[2]	Deprecated 2013-07-24. Withdrawn 2022-02-01.
2	SYNC v1.2	[1]	C.1, C.2

C.1: Mandatory.

C.2: Can only be supported with an active X.Y.Z version after Deprecation or Withdrawal. Deprecated 2021-02-01. Withdrawn 2022-02-01.

Table 0a: X.Y.Z Versions

Item	Version	Reference	Status
1	SYNC v1.2.1	[1]	C.1

C.1: Mandatory IF SYNC 0/2 “SYNC v1.2”, otherwise Excluded.

2.2 Core Configuration

Table 0b: Core Configuration Requirements

Item	Core Configuration	Reference	Status
1	Profile supported over BR/EDR	[1] 2.1	C.1, C.3
2	Profile supported over LE	[1] 2.1	C.2

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

C.2: Excluded for this Profile.

C.3: Mandatory for this Profile.

2.3 Roles

Table 1: Role Requirements

Item	Role	Reference	Status
1	IrMC Client	[1] 2.2	C.1
2	IrMC Server	[1] 2.2	C.1

C.1: Mandatory to support at least one.

** Deprecated versions may not appear in the Bluetooth SIG qualification tool after the deprecation date. TCRLs published after this date will not allow the use of deprecated versions.

2.4 Client role

Table 2: Client Application Features

Prerequisite: SYNC 1/1 "IrMC Client"

Item	Capability	Reference	Status
	Service Discovery		
1	Perform SD request	[1] 3.1, 7.2	M
	Authentication		
2	Initiation of authentication supported	[1] 2.4	M
	OBEX Authentication		
3	Initiation of OBEX authentication supported	[1] 2.4, 6.3	O
	Synchronization		
4	Synchronization	[1] 4.2	M
	Content Formats		
5	vCard 2.1	[1] 4.2	C.1
6	vCalender 1.0	[1] 4.2	C.1
7	vMsg as defined in IrMC 1.1	[1] 4.2	C.1
8	vNote as defined in IrMC 1.1	[1] 4.2	C.1
9	Other content formats	[1] 4.2	O
	Synchronization Commands		
10	Sync command	[1] 4.3	M
	Content Formats		
11	vCard 2.1	[1] 4.2	C.2
12	vCalender 1.0	[1] 4.2	C.2
13	vMsg as defined in IrMC 1.1	[1] 4.2	C.2
14	vNote as defined in IrMC 1.1	[1] 4.2	C.2
	Automatic Synchronization		
15	Automatic Synchronization	[1] 4.4	O
	Content Formats		
16	vCard 2.1	[1] 4.2	C.3
17	vCalender 1.0	[1] 4.2	C.3
18	vMsg as defined in IrMC 1.1	[1] 4.2	C.3
19	vNote as defined in IrMC 1.1	[1] 4.2	C.3

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one IF SYNC 2/10 "Sync command", otherwise Excluded.

C.3: Mandatory to support at least one IF SYNC 2/15 "Automatic Synchronization", otherwise Excluded.

2.5 Server role

Table 3: Server Application Features

Prerequisite: SYNC 1/2 "IrMC Server"

Item	Capability	Reference	Status
	Service Discovery server		
1	Provide information on supported content types on SD request	[1] 3.1, 7.2	M
	Authentication		
2	Initiation of authentication supported	[1] 2.4	M
	OBEX Authentication		
3	Initiation of OBEX authentication supported	[1] 2.4, 6.3	O
	Synchronization		
4	Synchronization	[1] 4.2	M
	Content Formats		
5	vCard 2.1	[1] 4.2	C.1
6	vCalender 1.0	[1] 4.2	C.1
7	vMsg as defined in IrMC 1.1	[1] 4.2	C.1
8	vNote as defined in IrMC 1.1	[1] 4.2	C.1
9	Other content formats	[1] 4.2	O
	Synchronization Commands		
10	Sync command	[1] 4.3	O
	Content Formats		
11	vCard 2.1	[1] 4.2	C.2
12	vCalender 1.0	[1] 4.2	C.2
13	vMsg as defined in IrMC 1.1	[1] 4.2	C.2
14	vNote as defined in IrMC 1.1	[1] 4.2	C.2
	Automatic Synchronization		
15	Automatic Synchronization	[1] 4.4	M
	Content Formats		
16	vCard 2.1	[1] 4.2	C.3
17	vCalender 1.0	[1] 4.2	C.3
18	vMsg as defined in IrMC 1.1	[1] 4.2	C.3
19	vNote as defined in IrMC 1.1	[1] 4.2	C.3

C.1: Mandatory to support at least one.

C.2: Mandatory to support at least one IF SYNC 3/10 "Sync command", otherwise Excluded.

C.3: Mandatory to support at least one IF SYNC 3/15 "Automatic Synchronization", otherwise Excluded.

2.6 GAP requirements

Table 4: GAP Requirements – SYNC Server

Prerequisite: SYNC 1/2 "IrMC Server"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Bondable mode	[1] 2.4	M	[3] GAP 1/7

Table 5: GAP Requirements – SYNC Client

Prerequisite: SYNC 1/1 "IrMC Client"

Item	Capability	Reference	Status	Inter-Layer Dependency
1	Bondable mode	[1] 2.4	M	[3] GAP 1/7

3 References

[1] Synchronization Profile Specification, Version 1.2 or later

[2] Synchronization Profile Specification, Version 1.1

[3] ICS Proforma for Generic Access Profile (GAP)

4 Revision history and acknowledgments

Revision History

Publication Number	Revision Number	Date	Comments
0	1.2.0	2006-06	Prepare for publication.
1	1.2.1	2012-06-14	Add versioning table to align with SYNC_SPEC_v1.2
	1.2.2r00	2014-06-16	TSE 5595: Corrected (removed) auto-numbering of Tables that created errors.
2	1.2.2	2014-07-07	TCRL 2014-1 Publication
	1.2.1.0r00	2015-10-28	Updated version numbering to align with Specification version change from 1.2 to 1.2.1 for ESR09. With the specification taking a third identifying number, the ICS version identifier moves to the fourth number and starts again at 0.
	1.2.1.0r01	2015-11-02	Added item 0/3 for new Specification version 1.2.1 (ESR09).
	1.2.1.0r02	2015-11-19	Converted to current document template.
	1.2.1.0r03	2015-11-24	Added table 0a for minor version support.
3	1.2.1.0	2015-12-22	Prepared for TCRL 2015-2 publication.
	1.2.1.1r00	2018-04-05	TSE 10580 (rating 1): Template Conversion.
4	1.2.1.1	2018-07-01	Approved by BTI. Prepared for TCRL 2018-1 publication.
	1.2.1.2r00	2018-09-30	Drafted changes for Deprecation and Withdrawal
5	1.2.1.2	2018-11-21	Approved by BTI. Prepared for TCRL 2018-2 publication.
	1.2.1.2ed2 r00–r03	2021-04-05 – 2021-05-23	TSE 15989 (rating 1): Added information related to deprecation and withdrawal to Tables 0 and 0a. Template-related editorials, including assigning publication number 5 to previous v1.2.1.2, and consistency checker updates.
	1.2.1.2 edition 2	2021-05-25	Approved by BTI on 2021-05-06. Prepared for edition 2 publication.
	1.2.1.2ed3 r00–r03	2021-07-26 – 2021-09-24	TSE 17176 (rating 1): Corrected the deprecation date for SYNC v1.1 in Table 0. TSE 17482 (rating 1): Corrected C.1 of Table 0 to align with more recent language conventions. Consistency checker editorials to align wording with the latest ICS template.
	1.2.1.2 edition 3	2021-09-28	Approved by BTI on 2021-09-27. Prepared for edition 3 publication.

Publication Number	Revision Number	Date	Comments
	p6r00–r02	2023-10-18 – 2023-11-27	TSE 23944 (rating 2): Added GAP inter-layer dependencies. Added GAP requirement Tables 4 (SYNC Server) and 5 (SYNC Client). Added Reference value information for 0/1, 0/2, and 0a/1. Updated the reference list. ade editorial changes to align the document with the latest ICS template, including updates to the IUT identification section, section and table titles, and spacing and removal of "is supported" language from conditionals. Formatted Item 0/1 as deprecated (gray text). Updated the copyright page to align with the latest version of the DNMD. Deleted draft revision history comments prior to p0.
6	p6	2024-07-01	Approved by BTI on 2024-05-22. Prepared for TCRL 2024-1 publication.
	p7r00	2025-03-19	TSE 27017 (rating 2): Updated Reference fields for SYNC 0/1, SYNC 0/2, and SYNC 0a/1. Updated conditional C.2 for Table 0. Added Table 0b, Core Configuration Requirements. 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 2025-05-30. Prepared for TCRL pkg100 publication.

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