Qualification Program Reference Document

Bluetooth Document

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Abstract:

This Qualification Program Reference Document (QPRD, as referred to in the Bylaws), contains the Compliance Requirements (as referred to in the Bluetooth Patent/Copyright License Agreement (PCLA)), the Bluetooth Qualification Process (as referred to in the Bluetooth Patent/Copyright License and Bluetooth Trademark License), and policies and procedures for Qualified Product database management. This document supersedes the Compliance Requirements in Volume 0, Part B, Section 3 of the Bluetooth® Core Specification Version 5.4 and each earlier version of the Bluetooth Core Specification, the Qualification Program Reference Document Version 2.3, and the Declaration Process Document Version 1.0.

Version History

Version Number	Date (yyyy-mm-dd)	Comments
v1.0	2002-02-07	The initial Qualification Program Reference Document
v2.1	2008-03-18	Approved by the Bluetooth SIG Board of Directors.
v2.3	2014-05-01	Approved by the Bluetooth SIG Board of Directors.
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1 Introduction

This document contains the Compliance Requirements and specifies the Bluetooth Qualification Process, including the policies and procedures for Qualified Product database management.

Table 1.1 defines the terms used in this document. Unless another document expressly references this document and incorporates a term defined in this section, these definitions do not apply and should not be used to interpret any other document published by the Bluetooth SIG.

1.1 Definitions

Term	Definition
Bluetooth Qualification Test Facility (BQTF)	An accredited test facility that can perform testing and produce test results for any Member, and Bluetooth SIG will accept the results for the purposes of the Bluetooth Qualification Process. For more information about BQTFs, see the BQTF and BRTF Program Overview [4].
Bluetooth Recognized Test Facility (BRTF)	An accredited test facility that can perform testing and produce test results for itself, and Bluetooth SIG will accept the results for purposes of the Bluetooth Qualification Process. For more information about BRTFs, see the BQTF and BRTF Program Overview [4].
Bluetooth SIG	As defined in the Bylaws of Bluetooth SIG Inc., Section 1.1 [3].
Bluetooth Specifications	All specifications and updates to specifications adopted in accordance with the Bylaws of Bluetooth SIG [3].
Complete Layer	An implementation contains a complete layer if the implementation includes, for that layer, all mandatory features, all the mandatory elements of any optional feature that is included, and any features that are conditionally required. See Volume 0, Part D, Section 1 of the Bluetooth Core Specification for more information.
Compliance Folder	Documentation maintained by the Member to demonstrate that a Product meets all requirements of the Bluetooth Qualification Process, as further described in Section 3.4.1.
Core Configuration	As defined in Volume 0, Part D, Section 3.3 of the Bluetooth Core Specification, where also the following terms, used in this document, are specified: Core-Complete Configuration, Core-Controller Configuration, and Core-Host Configuration.
Core Layer	Any Layer as defined in Volume 0, Part D, Section 3 of the Bluetooth Core Specification.
Design	An implementation of one or more Bluetooth Specifications.
Design Number (DN)	A reference number issued for each unique Design that is issued the first time a Product using that Design completes the Bluetooth Qualification Process.
Implementation Conformance Statement (ICS)	The document produced by the Bluetooth SIG for each Bluetooth Specification that identifies the features of that Bluetooth Specification.

Term	Definition
ICS Form	The form completed by a Member for each Design to identify all features of the Bluetooth Specifications in that Design.
Implementation eXtra Information for Testing (IXIT)	The form completed by a Member that provides additional configuration details to facilitate testing beyond supported features defined in the ICS, as defined in the Test Strategy and Terminology Overview (TSTO) [7].
Layer	Core Layers and X2Core Layers are all layers.
Member	An entity who has executed the Bluetooth SIG's membership agreements and has not withdrawn their membership or otherwise had their membership terminated.
Product	Includes only one Design, is sold as a single item, and is marketed under a name or trademark that uniquely identifies the Member who is the source of the product.
Inter-Layer Dependency (ILD)	A Bluetooth Specification requirement in one Layer that is dependent on one or more features or elements of a feature implemented in another Layer. For more information, see the TSTO [7].
Interoperability Testing (IOPT)	A collection of test cases, based on the ICS Form for the Design intended to verify interoperability for X2Core Layers.
Product Publication Date	The date requested by the Member, when the Qualified Product details are visible to the public and other Members in the Qualified Product database, which may not be later than 90 days after submission.
Product Qualification Date	The date that the Bluetooth SIG notifies the Member that the Product has successfully completed the Bluetooth Qualification Process.
Qualified Product	A Product that has successfully completed the Bluetooth Qualification Process.
Receipt Number	A unique reference number issued as proof of payment of an administrative fee paid by a Member to complete the Bluetooth Qualification Process.
TCRL Package	The collection of files maintained by Bluetooth SIG that contains all the TCRLs for all active Bluetooth Specifications.
Test Case Reference List (TCRL)	For each Bluetooth Specification, the sheet within the TCRL Package that identifies the applicable versions of the TS and ICS to be used in the Bluetooth Qualification Process for Designs that implement that Bluetooth Specification. For more information, see the TSTO [7].
Test Coverage Waiver (TCW)	A waiver of one or more Bluetooth Qualification Process requirements granted by Bluetooth SIG. See Appendix C for more information.
Test Set Erratum (TSE)	A report that tracks an error in the Bluetooth Qualification Process requirements (including a published test document) and any relevant fixes implemented to resolve the error. For more information on the errata process, see the EPD [8].

Term	Definition
Test Suite (TS)	For each Bluetooth Specification, the document that contains the test cases for each Bluetooth Specification. For more information, see the TSTO [7].
Test System	A system to be used by a Member to perform the specific tests as outlined in the test plan.
X2Core Layer	A single Bluetooth Specification that is not a Bluetooth Core Specification.

Table 1.1: Definitions

2 Compliance Requirements

This section defines the Compliance Requirements referred to in Section 1(i) of the Bluetooth Patent/Copyright License Agreement (PCLA) [1].

To demonstrate that a Product complies with the Bluetooth® Specification(s), each Member must for each of its Products:

- Identify the Product, the Design included in the Product, the Bluetooth Specifications that the Design implements, and each of the features of each Bluetooth Specification that the Design implements.
- Complete the Bluetooth Qualification Process (see Section 3).

For a Product to complete the Bluetooth Qualification Process, the Member must submit the required documentation for the Product under a Bluetooth SIG user account belonging to the same Member completing the Bluetooth Qualification Process.

Each Member is responsible for ensuring that the information they submit is complete and accurate and their Products comply with the Bluetooth Specifications.

A supplier or other Member cannot complete the Bluetooth Qualification Process for any other company's Product.

3 The Bluetooth Qualification Process

The Bluetooth Qualification Process promotes Product interoperability and reinforces the strength of the Bluetooth® brand and ecosystem to the benefit of all Members.

To complete the Bluetooth Qualification Process, a Product must include a Design that implements at least one Complete Layer.

The Bluetooth Qualification Process consists of the phases shown in Figure 3.1.

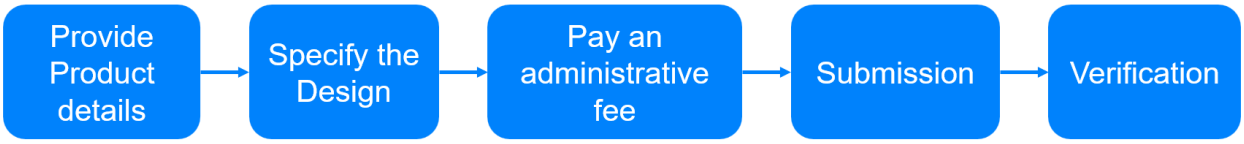

Figure 3.1: Bluetooth Qualification Process

3.1 Provide Product details

For each Product, a Member must provide the following information:

- Product name
- Product description
- Model number
- Product Publication Date
- If the Product will be visible for other users with a user account issued under the same Member to view before the Product Publication Date

A Member may include additional details, such as the Product website.

The Product name and model number provided by the Member during the Bluetooth Qualification Process must match the Product name and model number used by the Member when marketing, advertising, distributing, and selling the Product.

3.2 Specify the Design

A Member has several options for specifying the Design.

3.2.1 Option 1: Use a single existing Design

This option applies to a Member qualifying a Product that includes an existing Design that has a DN and that Design has not been modified (e.g., rebranding a Qualified Product from another Member). The Design identified by the DN may only implement Bluetooth Specifications that are active or deprecated at the time of Submission. No modifications may be made to the Design, including changes to the ICS Form.

Changes to the Product outside the Design are allowed, including:

- Enabling technologies
- Changes to the industrial design

- Changes to the communication technology other than Bluetooth
- Changes to the features that are unrelated to Bluetooth, branding, packaging, color, shape, Product name, or Model number

Members are responsible for assessing that modifications to the Product outside of the Design do not affect compliance with Bluetooth Specifications or result in a change to the ICS Form.

3.2.2 Option 2: Create a new Design

For each new Design, a Member must provide the following information:

- Design name (Optional, the Bluetooth SIG online tools will default to the Product name if the Member does not specify a Design name)
- If other Members are allowed to include the new Design in their Product (after it has been published in the Qualified Product database)
- If other users with accounts issued under the same Member are allowed to include the new Design in their Product (after it has been published in the Qualified Product database)

3.2.2.1 Option 2a: Create a New Design that combines multiple existing Designs

For a Product that includes a new Design created by combining two or more unmodified Designs that have DNs into one of the permitted combinations in Table 3.1, a Member must also provide the following information:

- The DN of each of the Designs used
- The desired Core Configuration of the new Design (if applicable, see Table 3.1 below)
- The active TCRL Package version used for checking the applicable Core Configuration (including transport compatibility) and evaluating test requirements

When creating a new Design, the ILDs between Layers included in the Design will be checked based on the latest TCRL Package version used among the included Designs.

Permitted Combinations			**Creating**	**Requirements**		
Design 1 has	**Design 2 has**	**Designs 3+ have (optional, additional Designs)**	**New Design has**	**ILD Check**	**Core Config. Check**	**IOPT Required for Layers added by**
Core-Complete Configuration	X2Core Layers only	X2Core Layers only	Core-Complete Configuration	Required	Required	Design 2 and Design 3+
Core-Controller Configuration	Core-Host Configuration	-	Core-Complete Configuration	Required	Required	None
Core-Controller Configuration	Core-Host Configuration	X2Core Layers only	Core-Complete Configuration	Required	Required	Design 3+

Permitted Combinations			Creating	Requirements		
Design 1 has	**Design 2 has**	**Designs 3+ have (optional, additional Designs)**	**New Design has**	**ILD Check**	**Core Config. Check**	**IOPT Required for Layers added by**
Core-Host Configuration	X2Core Layers only	X2Core Layers only	Core-Host Configuration	Required	Not required	Design 2 and Design 3+
Core-Controller Configuration	X2Core Layers implementing LC3 specification only	-	Core-Controller Configuration	Required	Not required	None
X2Core Layers only	X2Core Layers only	X2Core Layers only	X2Core Layers only	Required	Not required	None

Table 3.1: Permitted Combinations

3.2.2.2 Option 2b: Create any other new Design

A Member must provide the following information:

- DN(s) for any Design(s) included in the new Design (if applicable)
- An active TCRL Package version
- An ICS Form

An ICS Form is filled out for each new Layer implemented in the new Design and for each modified Layer based on an included Design using the active TCRL Package version.

A new Design must not implement any Layers using withdrawn specification(s). Implemented Layers using withdrawn specification(s) must be either completely removed or modified to implement an active specification and assessed against the active TCRL Package version.

For each unmodified Layer from an included Design, the Member may use the TCRL Package version selected when the included Design completed the Bluetooth Qualification Process or use the active TCRL Package version.

A Member may remove Layer(s) from included Design(s) that are not implemented in the new Design.

A Member must specify the new Design and complete the consistency check before submission.

3.2.2.2.1 Create a subset of a Member's own Design

A Member can use Option 2b to identify that they want to create a subset of their existing Design that has a DN, provided that the existing Design does not include a DN from other Members. The subset Design is created by removing one or more Layers or optional features. The subset Design must still meet the requirements of the same Core Configuration (if applicable). A subset Design cannot add Layers or features, and the TCRL Package versions cannot be changed. All other requirements from Section 3.2.2.2 also apply.

3.2.2.2.2 Reassess Member's own Design

A Member can use Option 2b to identify that they want to reassess their existing Design that has a DN against an active TCRL Package version. The Member can modify the ICS Form only if any ICS selection changes are caused by the TCRL Package version update. Otherwise, the Member cannot modify the ICS Form or any other Design details. The reassessed Design must still meet the requirements of the same Core Configuration (if applicable). All other requirements from Section 3.2.2.2 also apply.

3.2.2.3 Complete consistency check

When a Member creates a new Design, the ICS Form for the new Design must pass the consistency check performed by the tools provided by the Bluetooth SIG.

The consistency check determines whether the ICS Form is consistent with the requirements of the corresponding Bluetooth Specification(s) and any applicable deprecation and withdrawal policies and whether the ICS Form correctly shows support for:

- One or more Complete Layers.
- The ILDs between Layers included in the Design, based on the latest TCRL Package version used among the included Designs.
- Applicable Core Configuration (including transport compatibility).

If the Bluetooth SIG tool identifies any inconsistencies, then the Member must address the inconsistencies by correcting the ICS Form so that it passes the consistency check or by providing a TCW that indicates the requirement has been waived before submission (see Section 3.4). If the new Design follows Option 2a, then correction of inconsistencies must be by removal of ICS selections. The Bluetooth SIG tool may assist the Member in resolving the inconsistencies.

3.2.2.4 Generate test plan

If, based on the ICS Form, testing is required, then the Bluetooth SIG tool will generate a test plan, which includes all test cases for the new and modified Layers and any applicable IOPT test cases. The generated test plan will be based on the ICS Form and test case mapping table of the TCRL Package version specified by the Member for each Layer.

If no test plan is generated, then the Member will skip testing, test declaration, and test reports (see Section 3.2.2.5).

3.2.2.5 Complete testing, test declaration, and test report(s)

When a Test Plan is generated, the Member must:

- Follow the test requirements defined in Appendix A.
- For a Design with one or more new Layers, execute each mandatory test case according to the test case category requirements specified in the test plan.
- Test ILDs between Layers not included in the Product by using the test setup specified in the test plan that supports the Layers not included in the Product (to demonstrate application interoperability as defined in Volume 1, Part A, Section 6 of the Bluetooth Core Specification).
- For a Design that has a DN with one or more Layers that have been modified and the modification requires a change to the ICS Form, execute each mandatory test case according to the test case category requirements specified in the test plan.

- For a Design that has a DN with one or more Layers that have been modified, but the modification does not require a change to the ICS Form, use good engineering practices to determine which mandatory test cases are impacted by the modifications and execute those test cases. The Member may use previous test evidence for non-impacted mandatory test cases. When a Member uses previous test evidence, the Member is still responsible for ensuring that the Design complies with the Bluetooth Specifications.
- Receive a pass verdict for each test case executed, except for test cases where an inconclusive verdict is permitted as defined in the TS.

The active date specified in the test plan is the date the test case takes effect.

In any case where a pass verdict cannot be obtained, then the Member must either:

- Update the Product and successfully complete retesting.
- Provide a TCW for that test case.

If a Member finds an error with the Test Plan, the test case, or the Test System that is used, then the Member must submit a TSE via the Bluetooth SIG errata system. In this case, it may be possible to waive test requirements by using an approved TCW.

3.3 Pay an administrative fee

Members are required to pay an administrative fee to complete the Bluetooth Qualification Process. For administrative fee rules, see [5].

If an administrative fee is required, then the Bluetooth SIG issues a Receipt Number upon payment by the Member. The Member will provide the Receipt Number as proof of payment with their submission. After all necessary documentation is prepared and the administrative fee is paid, then the Member may proceed to submission (see Section 3.4).

Members who require the Bluetooth SIG to issue an invoice for an administrative fee will need to take into account the additional time it takes to issue an invoice.

3.4 Submission

Members use the Bluetooth SIG online tool to upload and submit the required documentation and to sign required declarations and attestations. The declarations and attestations include those regarding accuracy and completeness of information, authority to bind the Member, and agreement to and compliance with policies of and agreements with the Bluetooth SIG.

Documentation Submission Requirements	**Use a single existing Design (Section 3.2.1)**	**Create a new Design (Section 3.2.2)**
Product details	Required (provided in Section 3.1)	Required (provided in Section 3.1)
Design details	Required (the DN is provided in Section 3.2.1)	Required (the DN(s) are provided in Section 3.2.2.1 or 3.2.2.2)
ICS Form	N/A	Required (specified in Section 3.2.2.2)

Documentation Submission Requirements	Use a single existing Design (Section 3.2.1)	Create a new Design (Section 3.2.2)
Test declaration	N/A	Required (specified in Section 3.2.2.5) if test plan is generated
Test report(s)	N/A	Required (specified in Section 3.2.2.5) if test plan is generated
Receipt Number	See Fee Rules [5]	See Fee Rules [5]
TCW	N/A	Required if TCW is used
Declarations and Attestations	Required	Required

Table 3.2: Documentation submission requirements

3.4.1 Compliance Folder

For all Qualified Products, Members must maintain documentation listed in Table 3.3 in a single location (commonly referred to as the "Compliance Folder"). Documentation must be stored at the time the Member submits the Product to the Bluetooth Qualification Process and be retained for no less than one year after the Member stops offering the Product for sale or distribution. The Member must make documentation available to the Bluetooth SIG for inspection if requested.

Compliance Folder Requirements	Use a single existing Design (Section 3.2.1)	Create a new Design (Section 3.2.2)
Product details	Required	Required
Design details	Required	Required
Test declaration	N/A	Required if test plan is generated
Test report(s)	N/A	Required if test plan is generated
Test logs	N/A	Required if test plan is generated
TCW	N/A	As required

Table 3.3: Compliance Folder requirements

3.5 Verification

The Bluetooth SIG will review the submitted materials. Most reviews are approved within one business day. The Bluetooth SIG will make a best effort to complete the review of more complex submissions within five business days.

During the verification, the Bluetooth SIG will typically evaluate the following criteria:

- Check that a valid and approved TCW has been provided to address any inconsistencies identified during the consistency check.
- Check the authenticity of the test reports provided by the Member.
- Verify that the Product matches the Core Configuration specified by the Member.

If the submission is approved by the Bluetooth SIG, then the Product has successfully completed the Bluetooth Qualification Process and is a Qualified Product. The Qualified Product will be listed in the Qualified Product database (see Section 3.4.1), and the Member will be notified at the user account that made the submission. The notice will include the Product name and model number from the Member's submission. If the Product includes a new Design (including subset Design and reassessed Design), then a unique DN will also be assigned to the new Design.

If the submission is rejected by the Bluetooth SIG, then the Product has not successfully completed the Bluetooth Qualification Process, and the Member will be notified at the user account that made the submission and is provided an explanation for rejection. The Member must resolve the reason for rejection before submitting the materials again.

The following is a non-exhaustive list of examples of why submissions may be rejected by the Bluetooth SIG:

- A Product submission via the "creating a new Design" option may be rejected if:
  - The consistency check indicates that there are inconsistencies and the TCW provided by the Member does not waive the requirement. The Member must correct the ICS Form either by changing the specified Design so that it passes the consistency check or by providing a TCW that waives the corresponding requirement.
  - The test reports are incorrect. The Member must resubmit the Product with corrected test reports.
- A Product submission via the "using a single existing Design" option may be rejected if:
  - The Core Configuration is determined to be incorrect (e.g., a speaker that does not contain a Core-Complete Configuration). The Member may need to contact their supplier to inquire about the correct DN for the Design or provide an explanation that establishes that their Product has the correct Core Configuration.

If the Member is not satisfied with the explanation for the rejection, then the Member may appeal the rejection to the Bluetooth SIG. The Bluetooth SIG will review the disputed rejection with BQRB.

4 Qualified Product database

Each Qualified Product will be added to the Qualified Product database. The visibility of the Product details fields is shown in Table 4.. The database is accessible via the Bluetooth SIG website.

Product Detail Fields	**Available Information View**		
	Public (From Product Publication Date)	**Other Members** (From Product Publication Date)	**All Users Accounts of Member Qualifying the Product** (From Product Qualification Date or Product Publication Date, depending on the selection)
DN of new Design created as part of Product Submission	No	Yes	Yes
Member Name	Yes	Yes	Yes
Submitted By User Account	No	No	Yes
Product Contact	No	No	Yes
Product Name	Yes	Yes	Yes
Product Website	Yes	Yes	Yes
Product Qualification Date	No	Yes	Yes
Product Publication Date	No	No	Yes
Model Number	Yes	Yes	Yes
Product Description	Yes	Yes	Yes
Included DN(s) (if applicable)	No	Yes	Yes
Design Name	No	Yes	Yes
Design Contact	No	No	Yes
Design available for other Members to use	No	Yes	Yes
Design available for other users within the same Member to use	No	No	Yes
ICS Form and the TCRL Package Version	No	Yes	Yes

Table 4.1: Qualified Product database fields

Updates to Product details may be possible and the details are in Table 4.2.

Product Detail Fields	Correction Allowed	Update Method
Product Contact	Yes	Self-Serve
Included DN(s) (if applicable)	No*	N/A
Design Name	Yes	SIG-Assisted
Design Contact	Yes	SIG-Assisted
Design available for other Members to use	Yes	SIG-Assisted
Design available for other users within the same Member to use	Yes	SIG-Assisted
ICS Form and the TCRL Package Version	Yes*	SIG-Assisted
Test Declaration	Yes*	SIG-Assisted
Test Report	Yes*	SIG-Assisted

Table 4.2: Qualified Product correction

*These fields are only allowed to be updated before the Product Publication Date. If a Member wants to change these fields before the Product Publication Date, then the Member must request to withdraw the original submission and restart the Bluetooth Qualification Process for this Product. If the request to withdraw is received before the Product Publication Date, then the Member may reuse the administrative fee by providing the existing Receipt Number in their resubmission.

A Member who identifies an error in the following database fields, Product name, model number, Product description, Product website, Product Qualification Date, or Product Publication Date, must first qualify a new Product as described in Section 3.2.1 with the corrected information, and then the Member may request that the Bluetooth SIG withdraw the original (incorrect) Product from the Qualified Product database; provided that the original Product has never been sold or distributed.

A Member may request withdrawal of a Qualified Product from the database if the Product has never been sold or distributed. If a Product is withdrawn and is the only Product that uses the Design that was included in the submission, then the Bluetooth SIG will delete the DN for that Design.

If a Member transfers ownership of a Qualified Product to another Member as part of a merger or acquisition, then the Member who submitted the Product to the Bluetooth Qualification Process must complete and submit the assignment agreement form [6] to the Bluetooth SIG.

5 Acronyms and abbreviations

Acronym/Abbreviation	Meaning
BQTF	Bluetooth Qualified Test Facility
BRTF	Bluetooth Recognized Test Facility
BTLA	Bluetooth Trademark License Agreement
DID	Declaration ID
DN	Design Number
HCI	Host Controller Interface (Volume 4, Part E in the Bluetooth Core Specification)
ICS	Implementation Conformance Statement
IOPT	Interoperability Testing
IXIT	Implementation eXtra Information for Testing
PCLA	Bluetooth Patent/Copyright License Agreement
QDID	Qualified Design ID
QPRD	Qualification Program Reference Document
TCRL	Test Case Reference List
TCW	Test Coverage Waiver
TS	Test Suite
TSE	Test Set Erratum
TSTO	Test Strategy and Terminology Overview

Table 5.5.1: Acronyms and abbreviations

6 References

[1] Bluetooth Patent/Copyright License Agreement
https://www.bluetooth.com/wp-content/uploads/2019/03/PCLA-ESign-Version-Version-11.pdf

[2] Bluetooth Trademark License Agreement
https://www.bluetooth.com/wp-content/uploads/2023/08/BTLA_w_Brand_Guide.pdf

[3] Bylaws of Bluetooth SIG, Inc.
https://www.bluetooth.org/DocMan/handlers/DownloadDoc.ashx?doc_id=556688

[4] BQTF and BRTF Program Overview
https://www.bluetooth.com/develop-with-bluetooth/qualification-listing/qualification-test-facilities/qualification-test-facilities-program-overview/

[5] Fee Rules
https://www.bluetooth.com/fee-schedule/

[6] Assignment Agreement Form
https://support.bluetooth.com/hc/en-us/article_attachments/6059031981453/Form3200_TransferAssignmentAgrmntEN.pdf

[7] Test Strategy and Terminology Overview
https://www.bluetooth.org/docman/handlers/DownloadDoc.ashx?doc_id=40500

[8] Errata Process Document
https://www.bluetooth.org/docman/handlers/DownloadDoc.ashx?doc_id=25352

Appendix A Test requirements

Test Case Category	Test System Requirements		Performed by	Test Declaration [Appendix A.1]	Test Report [Appendix A.2]
	Validated	Non-validated or Member-Defined			
Category A: Mandatory (Test cases in the RF, RFPHY, BB, LL, ISOAL, LMP, and the Lower HCI role Layers)	Allowed	Not allowed	BQTF or BRTF	Required	Required
Category A: Mandatory (Test Cases in other Layers)	Allowed	Not allowed	Member or BQTF/BRTF or third party	Required	Required
Category B: Mandatory	Allowed	Allowed	Member or BQTF/BRTF or third party	Required	Required
Category C: Optional (Recommended)	Allowed	Allowed	Member or BQTF/BRTF or third party	Required	Not Required
Category D: Optional (Informational)	Allowed	Allowed	Member or BQTF/BRTF or third party	If performed, then required	Not Required
Category X: Optional (Recommended) These are supplementary interoperability tests aimed at scenarios that do not have a direct specification reference. The tests are recommended by the Bluetooth SIG to be run for improved interoperability, but they are not required to be executed as part of the Bluetooth Qualification Program.	Allowed	Allowed	Member or BQTF/BRTF or third party	If performed, then required	Not Required

A.1 Test declaration

A Member must provide a test declaration by filling out the test plan to include the following:

- Test Case Verdict (pass, inconclusive, waived, or not required)
- Test Execution Date
- Test System details
- Test Report Reference (file name)
- TCW (when applicable)

A.2 Test report

A Member must provide a test report for all Category A or B test cases in the test plan. A test report must contain:

- Identification of the test facility that conducted the tests.
- Identification of the Member providing the Product for testing.
- Identification of the Product including hardware and software version numbers.
- A reference to the TS version.
- A reference to the utilized Test System including the version.
- IXIT values required by test cases executed.
- For all test cases performed using a Member-defined test setup, information regarding test set up, execution, and results.
- A summary list of all performed test cases with the test case identifier, date of test, and the verdict (pass, fail, or inconclusive)

Appendix B Transition for Products qualified under PRD version 2.3 and earlier

Bluetooth Product types defined in Volume 0, Part B of the Bluetooth Core Specification Version 5.4 or earlier are no longer supported. Instead, Volume 0, Part D of the Bluetooth Core Specification defines Core Configurations. Bluetooth Product types will map to the definitions in the following table:

Controller Subsystem	A Core-Controller configuration The Bluetooth SIG tools will automatically select the SEC and LESEC Layers, Lower HCI role, and associated features based on the selected active TCRL Package version and supported features in the used Designs.
Host Subsystem	A Core-Host configuration The Bluetooth SIG tools will automatically select the Upper HCI role, based on the selected active TCRL Package version and supported features in the used Designs.
End Product	A Core-Complete configuration The Bluetooth SIG tools will automatically select the Core-Complete configuration, SEC and LESEC Layers, and associated features based on the selected active TCRL Package version and supported features in the used Design.
Profile Subsystem	X2Core Layer(s)
Component	Core Layer(s) or X2Core Layer(s) Can be used to create a new Design according to Section 3.2.2, even if the QDID was last assessed three or more years ago.

Table B.1: Bluetooth Product type mapping

Other Bluetooth Product types such as Development Tool, Test Equipment, and Component (non-tested) are not supported.

B.2 Using DID and QDID going through Option 1

When submitting a Product using Option 1, a Member can use that DID or QDID as the DN.

B.3 Using DID and QDID going through Options 2a and 2b

When submitting a Product using Options 2a and 2b, a Member must use QDID(s) as DN(s).

Appendix C TCW policy

A Member may request a TCW using the process in the EPD [8].

When a TCW is granted, the TCW applies to all Members where the error is applicable.

A TCW remains valid until it is terminated. A TCW is terminated when the associated TSE indicates that the errors in the test documents or Test Systems have been fixed and the TSE has been incorporated in a new TCRL Package, if required.

The reasons a TCW may be granted include:

- An error in the test case mapping table.
- An error in ICS conditionals.
- An error in a test case initial condition, procedure, or pass verdict.
- An error in test case category in the TCRL Package.
- An error in a Test System.
- An error in the Bluetooth SIG online tool's interface or generated test plan.
- No commercially available Test System can perform the test case, and it is not feasible to implement the test case in-house.
- A request to use a newly validated Test System (i.e., when the validation is not yet referenced in a TCRL).
- A request to apply the corrections from a TSE (e.g., modify a part of the test case) before the TSE is published in the applicable test document and referenced in a TCRL Package.