

# Bluetooth® NLC

Qualification guide

20 December 2023	SN-229 rev. 1.0
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# 1. Bluetooth NLC qualification essentials

Any device using patented Bluetooth technology must be declared and listed with Bluetooth SIG. Devices implementing Bluetooth NLC Profiles must be verified for Bluetooth NLC compliance. This is done through a qualification process. A qualified Bluetooth NLC device does not need any additional Bluetooth qualifications. It also meets general Bluetooth licensing requirements, allowing the manufacturer to use the Bluetooth trademark.

## 1.1 Bluetooth NLC profiles

Bluetooth NLC Profiles are device profiles that sit on top of Bluetooth Mesh, each with its own set of performance parameters and supported models. Bluetooth NLC introduces six application profiles:

1. [Ambient Light Sensor NLC Profile \(ALS\) 1.0](#) for an ambient light sensor.
2. [Basic Lightness Controller NLC Profile \(BLC\) 1.0](#) for a luminaire with an integrated controller.
3. [Basic Scene Selector NLC Profile \(BSS\) 1.0](#) for a wall switch or a wall station to select lighting scenes or turn the lights on/off, including devices that are configured to be able to act as an EnOcean adapter.
4. [Dimming Control NLC Profile \(DIC\) 1.0](#) for a wall-mounted, user-adjustable device to dim the lights up/down, including devices that are configured to be able to act as an EnOcean adapter.
5. [Energy Monitor NLC Profile \(ENM\) 1.0](#) for a sensor reporting energy consumption, including all devices with DALI interface.
6. [Occupancy Sensor NLC Profile \(OCS\) 1.0](#) for an occupancy sensor.

These application profiles make certain existing optional features of Bluetooth Mesh mandatory. The underlying features have existed since Mesh 1.0 in 2017. The NLC Profiles make the requirements stricter, helping improve interoperability and performance.

## 1.2 Bluetooth NLC qualification paths

Device manufacturers can apply for Bluetooth NLC qualification independently, or they can apply for qualification based on one of the Bluetooth NLC subsystems. Bluetooth NLC subsystems are qualified solutions that can be used by suppliers as the foundation for their Bluetooth NLC products.

In the case of independent qualification, devices need to go through a rigid qualification process that includes hundreds of compliance tests. In the case of qualification based on a subsystem, suppliers can submit their products for a fast-track qualification process.

Because the Silvair firmware stack has been qualified as a Bluetooth NLC subsystem, the company's manufacturing partners can qualify their products via fast-track qualification. This allows them to get to market quicker with interoperable and Bluetooth NLC-compliant devices.

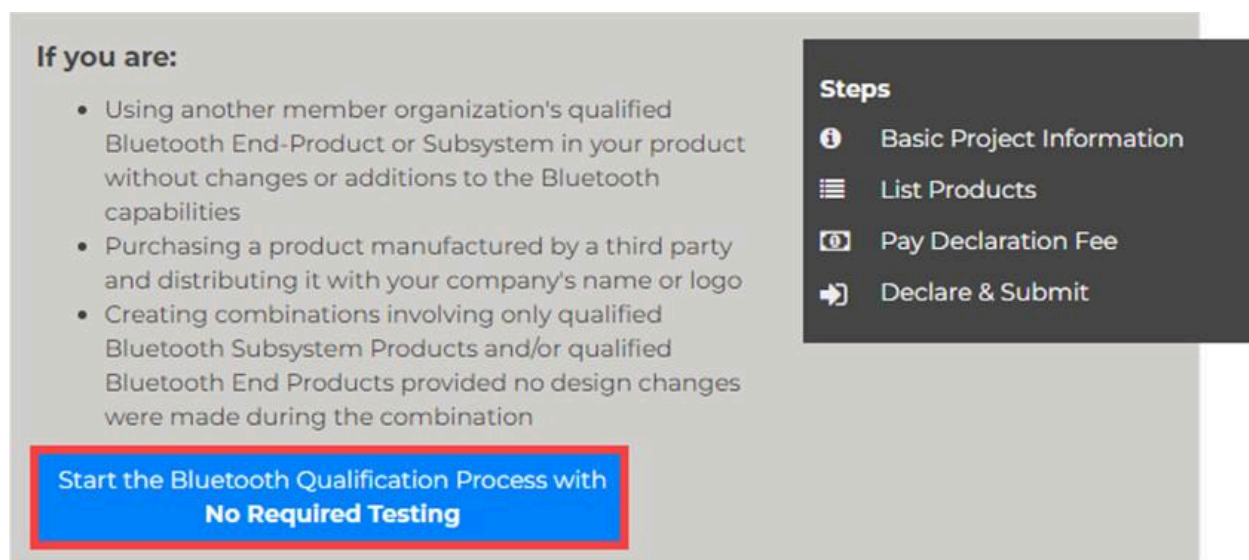
## 2. Fast-track Bluetooth NLC qualification with Silvair Firmware

### 2.1 Prerequisites

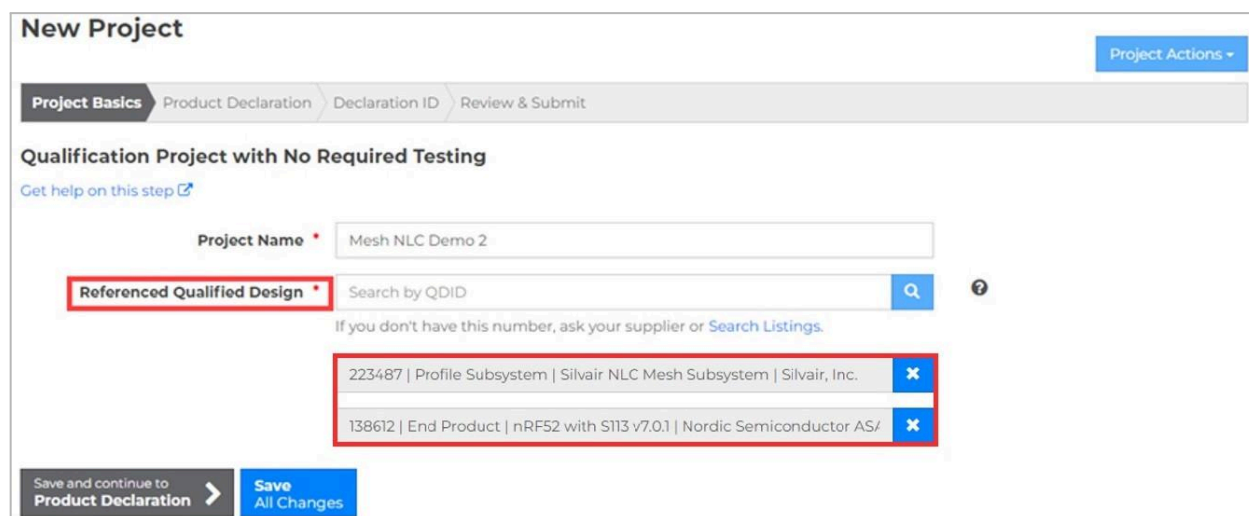
- Prepare a list of products you want to qualify.
- Get familiar with [Bluetooth NLC profiles](#).
- Identify the NLC profiles that correspond to your products to accurately assign these profiles during the qualification process.
- To qualify your products, use **Launch Studio** (<https://launchstudio.bluetooth.com>), the specialized qualification tool provided by the Bluetooth SIG.

### 2.2 Qualifying a product based on Silvair Firmware

1. In [Launch Studio](#), click “Start the Bluetooth Qualification Process with No Required Testing”.



2. In “Project Basics”, enter a name for your project, and add two reference designs: the Silvair’s Profile Subsystem with QDID **223487** and the Nordic’s End Product with QDID **138612**.



3. Go to “Product Declaration” and then click “Add a Product”. Fill in all mandatory fields marked with \* (Note: This will be a placeholder product which will be removed later).

**Mesh NLC Demo 2** Project Actions +

Project Basics **Product Declaration** Declaration ID Review & Submit

**Product Declaration**

Begin the Declaration Process phase of product qualification by describing each of your product(s) that implement Bluetooth technology.

[Get help on this step](#)

Listing Date \* 2023-09-14 ?

**Product Listing**

List all Products that use this Design (or combination of Designs) and that are distributed under a name that identifies your company as the source of the Product. Please refer to the [Bluetooth Launch Studio Terms of Use](#) for the definition of “Product.” Color variations are not considered as separate Product. Any other change (e.g., form factor, model name, Design, etc.) is considered a separate Product. All Products must complete the Qualification Process by adding a separate Product listing. Certain changes to the Design portion of a Product will require a new Design qualification and Declaration ID (as set forth in the [Bluetooth Qualification Program Reference Document \(PRD\)](#)).

Bluetooth SIG maintains a publicly available database of information submitted through Launch Studio. Customs officials often use the database to identify unlicensed Bluetooth products. If a product implements Bluetooth technology or bears the Bluetooth® trademark and it is not listed in Bluetooth SIG’s database, customs officials may seize or block the import of the product. You can delay the inclusion of certain information about your product in the publicly available database for up to 90 days after you submit your product (see Bluetooth Launch Studio Terms of Use, Section 5) by selecting a Publish Date in the “Add a Product” modal up to 90 days after the date you submit your product.

[Add a Product](#) [Import Products](#)

Product Name	Product Website	Product Category	Publish Date	Archive Date	Model Number	Subset ID	Description
Placeholder Product			2023-09-14		Demo		Demo <a href="#">Edit</a> <a href="#">Duplicate</a> <a href="#">Delete</a>

[Save and return to Project Basics](#)
[Save and continue to Declaration ID](#)
[Save All Changes](#)

4. After adding the product, go to “Declaration ID”, and then click “Pay Declaration Fee”. Fill in all mandatory fields in the payment popup window. After the payment has been processed, a Declaration ID will be available under “Available Declaration IDs”. Select the Declaration ID.

Project Basics Layer Selection ICS Selection Testing Test Documentation Product Declaration **Declaration ID** Review & Submit

**Declaration IDs**

Assign a Declaration ID

You must assign a Declaration ID to your project in order to complete the qualification process. A list of your available Declaration IDs is below. You may select a Declaration ID from that list or get a new Declaration ID by paying a declaration fee. The declaration fee amount depends on a number of factors and is not refundable - see the [fees page](#) for more information. Unused Declaration IDs expire 12 months from the date of receipt of payment unless used to complete a project and submit it for qualification.

[Pay Declaration Fee](#)

[Manage my company's Declaration IDs](#)

**Available Declaration IDs**

	ID	Expiration Date (UTC)	Notes
<input type="radio"/>	None		
<input checked="" type="radio"/>	D065310	9/10/2024	
<input type="radio"/>	D065309	9/10/2024	

[Save and return to Product Declaration](#)
[Save and continue to Review](#)
[Save All Changes](#)

5. Go to “Review & Submit”. Make sure that only green icons with white check marks appear in the “Project Status”. Review “Project Details” for accuracy.

## Mesh NLC Demo

Project Actions -

Project Basics
Layer Selection
ICS Selection
Testing
Test Documentation
Product Declaration
Declaration ID
**Review & Submit**

### Review

Review the product listings and submit your product(s) for qualification.

Please carefully review all listing information below for accuracy, and use the links below to resolve any warnings and correct any errors. Errors listed in the Project Status section must be resolved before submitting your project. You may submit your project with warnings in the Project Status section if you have reviewed the warnings and determined your project is complete and accurate.

If your project has an ICS inconsistency, you must submit a Test Case Waiver applicable to this project.

For more information about Test Case Waivers, please refer to the [Program Reference Document \(PRD\)](#). If you have obtained a Test Case Waiver applicable to this project, you must note it (by clicking “Notes”) when you submit your project.

Project Status

Notes

Project Step	Status	Description
<a href="#">ICS Selection</a>	✓	All Layers Consistent
<a href="#">Test Documentation</a>	✓	Complete
<a href="#">Product Declaration</a>	✓	Complete
<a href="#">Declaration ID</a>	✓	Complete

Project Details

Project Name

Mesh NLC Demo

Edit

Product Type

Profile Subsystem

Edit

TCRL Version:

TCRL 2023-1

Edit

Referenced Qualified Design(s)

Edit

Previously Qualified Design Used In this Qualification(s)

Edit

Listing Date

2023-09-14

Edit

Declaration ID

D065310

Edit

Specification Name

N/A

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description	Edit
Mesh NLC			2023-09-14	Demo	Demo	

Member Company

Bluetooth SIG, Inc.

Declaring Member Contact / Listing Contact Person

Name	Test8 User8
Address	APICompanyAddress1 APICompanyAddress 2
City	Kirkland
State	WA
Country	United States
Postal Code	99033



6. Scroll down and select all checkboxes, enter your name, and click “Signature Confirmed – Complete Project & Submit Product(s) for Qualification”. When the confirmation window pops up, click “Signature Confirmed...” again.

**Complete the Project and Submit Product(s) for Qualification**

All status alerts must be resolved before submitting your project, provided that you may submit your project with an ICS inconsistency if you also submit a Test Case Waiver applicable to this project. See above “Project Status” section.

By typing my name or other symbol of my signature into the “Signature” field below, I agree on behalf of Bluetooth SIG, Inc. (“Company”) to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

- ☒ I am authorized by Company to submit all of the information and materials included in this project and all information and materials are true, complete, and accurate.
- ☒ Company does not, by its governing documents or other applicable law, require more than one signatory, a stamp or seal, or a witnessed signature to be legally bound.
- ☒ I agree on behalf of Company to contract in English and electronically, and adopt the characters and symbols input in the signature field below as my signature, with the same effect as an ink signature.
- ☒ The products included in this project are owned by Company and, if marketed or distributed, are done so under a name that uniquely identifies Company as the source of the Product.
- ☒ The product(s) included in this project and the corresponding Qualified Designs comply with the [Bluetooth Launch Studio Terms of Use](#) and the versions of the Bluetooth Specifications referenced in the project.

If any of the foregoing is not correct or you do not agree, you must exit this form without signing.

**Signature:**

Submit your project and documentation to the Bluetooth SIG.

**Are you sure?**


**This action is final.**


You will not be able to make changes to this project once you have submitted it. When you submit your project, you represent and warrant that all information and materials included in this project are true, complete, and accurate.

**Not done?**

You can save and exit this project without submitting. You can find it later in your [draft projects list](#) for future reference and edits.

7. After the project has been successfully submitted, click “View Listing Details”.

**Project successfully submitted. The product(s) included in this project have completed the Bluetooth Qualification Process.**

 **Download** a copy for your records, and keep it in your Compliance Folder.

Submitted on 2023-09-14

Your Declaration ID for this project is: D065309

For questions or to resolve inaccuracies, please contact [Member Support](#)

[View Listing Details](#)

[Return to Draft Projects](#)

8. On the “Listing Details” page, click “Create a Subset”.

[+ Create a Subset](#)

**Listing Details**

Declaration ID	D065309
Referenced Qualified Designs	223487 (Profile Subsystem) 138612 (End Product)
Company	Bluetooth SIG, Inc.
Membership Status	Active Member <a href="#">Learn More</a>
Declared by	Test8 User8
Submit Date	2023-09-14
Listing Date	2023-09-14
Specification Name	5.1
SDoC/DoC	<a href="#">Download</a>


**Product List**

[Add a Product](#)

Product Name	Product Website	Product Category	▼ Publish Date	Archive Date	Model Number	Subset ID	Description
Place Holder Product			2023-09-14		Demo		Demo <a href="#">Withdraw Product</a>

1 product(s) found

9. On the “Create a Subset” popup window, enter the Subset Name. In the “Referenced QDID” field, select 223487, and click “Create a Subset”. You will then be taken to Launch Studio.

**Create a Subset of Mesh NLC Demo 2** 

A “subset” of a design is an implementation that disables (but does not add) one or more profiles, protocols, roles, or optional features. A subset must comply with the Bluetooth Specification and be the same product type as the original design.

**Subset Name \***

**Referenced QDID \***

[Cancel](#)

[Create a Subset](#)

10. In “Layer Selection”, scroll down to “Mesh Specifications” and deselect Mesh NLC Profiles unsupported by your product.

Mesh Specifications			
Model or Profile	Name	TCRL Version	Combined QDID
<input type="checkbox"/> ALSNLC	Ambient Light Sensor NLC Profile	2023-1	
<input type="checkbox"/> BLCNLC	Basic Lightness Controller NLC Profile	2023-1	
<input type="checkbox"/> BSSNLC	Basic Scene Selector NLC Profile	2023-1	
<input type="checkbox"/> DFU	Mesh Device Firmware Update Model		
<input checked="" type="checkbox"/> DICNLC	Dimming Control NLC Profile	2023-1	
<input checked="" type="checkbox"/> ENMNLC	Energy Monitor NLC Profile	2023-1	
<input type="checkbox"/> MBT	Mesh Binary Large Object Transfer Model		
<input type="checkbox"/> MCDB	Mesh Configuration Database Profile		
<input type="checkbox"/> MESH	Mesh Profile		
<input type="checkbox"/> MMDL	Mesh Model		
<input checked="" type="checkbox"/> OCSNLC	Occupancy Sensor NLC Profile	2023-1	

11. Go to “ICS Selection”, click the “Consistency Check”, and resolve any inconsistencies.

**Mesh NLC Demo 2 subset**

Layer Selection **ICS Selection** Product Declaration Review & Submit

**Consistency Check**

Refresh consistency report Select All Mandatory ICS

Feature Count: 69

**All ICS inconsistencies are resolved**

Close

ICS Selection

Select supported capabilities for each layer

Use the consistency check to verify and resolve inconsistencies in resolved or approved by Bluetooth SIG in order for your product to

12. Go to “Product Declaration” and click “Add a Product” to add the product that uses the subset design. In the “Product Details” popup window, fill in all mandatory fields marked with \*.

**Mesh NLC Demo 2 subset**

Layer Selection ICS Selection **Product Declaration** Review & Submit

**Product Declaration**

Begin the Declaration Process by describing your product(s).

**Listing Date** 2023-09-14

**Product Listing**

List all Products that use this Design (or combination of Designs) and that are distributed under a name that identifies your company as the source of the Product. Please refer to the [Bluetooth Launch Studio Terms of Use](#) for the definition of “Product.” Color variations are not considered as separate Product. Any other change (e.g., form factor, model name, Design, etc.) is considered a separate Product. All Products must complete the Qualification Process by adding a separate Product listing. Certain changes to the Design portion of a Product will require a new Design qualification and Declaration ID (as set forth in the [Bluetooth Qualification Program Reference Document \(PRD\)](#)).

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**Add a Product** Import Products

Product Name	Product Website	Product Category	Publish Date	Archive Date	Model Number	Subset ID	Description
Actual Product Name			2023-09-14		Demo	221399	Demo

Edit Duplicate Delete

Save and return to ICS Selection Save and continue to Review & Submit Save All Changes

13. Go to “Review & Submit”. Make sure that only green icons with white check marks appear in the “Project Status”. Review “Project Details” for accuracy.

Project Status

Notes

Project Step	Status	Description
ICS Selection	✓	All Layers Consistent
Product Declaration	✓	Complete

Project Details

Project Name

Mesh NLC Demo 2 subset

Product Type

Profile Subsystem

TCRL Version:

TCRL 2023-1

Previously Qualified Design Used In this Qualification(s)

221398

Listing Date

2023-09-14

Declaration ID

D065309

Specification Name

N/A

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
Actual Product Name			2023-09-14	Demo	Demo

Member Company

Bluetooth SIG, Inc.

Declaring Member Contact / Listing Contact Person

Name	Test8 User8
Address	APICompanyAddress1 APICompanyAddress 2
City	Kirkland
State	WA
Country	United States
Postal Code	99033

14. Scroll down and select all checkboxes, enter your name, and click “Signature Confirmed – Complete Project & Submit Product(s) for Qualification”. When the confirmation dialog appears, click “Signature Confirmed...” again.

Complete the Project and Submit Product(s) for Qualification

All status alerts must be resolved before submitting your project, provided that you may submit your project with an ICS inconsistency if you also submit a Test Case Waiver applicable to this project. See above “Project Status” section.

By typing my name or other symbol of my signature into the “Signature” field below, I agree on behalf of Bluetooth SIG, Inc. (“Company”) to [Bluetooth Launch Studio Terms of Use](#), and I make the following representations and warranties personally and on behalf of Company. The following representations and warranties, together with all project information and the [Bluetooth Launch Studio Terms of Use](#), are the Supplier Declaration of Conformity and Declaration of Compliance described in the [Program Reference Document \(PRD\)](#) and [Declaration Process Document \(DPD\)](#).

☒ I am authorized by Company to submit all of the information and materials included in this project and all information and materials are true, complete, and accurate.

☒ Company does not, by its governing documents or other applicable law, require more than one signatory, a stamp or seal, or a witnessed signature to be legally bound.

☒ I agree on behalf of Company to contract in English and electronically, and adopt the characters and symbols input in the signature field below as my signature, with the same effect as an ink signature.

☒ The products included in this project are owned by Company and, if marketed or distributed, are done so under a name that uniquely identifies Company as the source of the Product.

☒ The product(s) included in this project and the corresponding Qualified Designs comply with the [Bluetooth Launch Studio Terms of Use](#) and the versions of the Bluetooth Specifications referenced in the project.

If any of the foregoing is not correct or you do not agree, you must exit this form without signing.

Signature:

Name

Save & Exit without Submitting

Signature Confirmed - Complete Project & Submit Product(s) for Qualification



Are you sure?

**This action is final.**

You will not be able to make changes to this project once you have submitted it. When you submit your project, you represent and warrant that all information and materials included in this project are true, complete, and accurate.

**Not done?**

You can save and exit this project without submitting. You can find it later in your [draft projects list](#) for future reference and edits.

Signature Confirmed - Complete Project & Submit Product(s) for Qualification

Save & Exit without Submitting

15. After the subset has been successfully submitted, click “View Listing Details”.

**Project successfully submitted. The product(s) included in this project have completed the Bluetooth Qualification Process.**

**Download a copy for your records, and keep it in your Compliance Folder.**

Submitted on 2023-09-14

Your Declaration ID for this project is: D065309

For questions or to resolve inaccuracies, please contact [Member Support](#)

View Listing Details

Return to Draft Projects

16. On the “Listing Details” page, make sure that the product using the subset ID is listed under “Product List”.

Listing Details

Declaration ID

D065309

Referenced Qualified Designs

223487 (Profile Subsystem)  
138612 (End Product)

Company

Bluetooth SIG, Inc.

Membership Status

Active Member [Learn More](#)

Declared by

Test8 User8

Submit Date

2023-09-14

Listing Date

2023-09-14

Specification Name

S1

SDoC/DoC

[Download](#)

Product List

[Add a Product](#)

Product Name	Product Website	Product Category	▼ Publish Date	Archive Date	Model Number	Subset ID	Description	
Place Holder Product			2023-09-14		Demo		Demo	<a href="#">Withdraw Product</a>
Actual Product Name			2023-09-14		Demo	221399	Demo	<a href="#">Withdraw Product</a>

2 product(s) found

17. Remove the “Place Holder Product” from the “Product List” by clicking “Withdraw Product”, and click “Submit”. The request will be reviewed and processed.

**Listing Details**

Declaration ID	D065309
Referenced Qualified Designs	223487 (Profile Subsystem) 138612 (End Product)
Company	Bluetooth SIG, Inc.
Membership Status	Active Member <a href="#">Learn More</a>
Declared by	Test8 User8
Submit Date	2023-09-14
Listing Date	2023-09-14
Specification Name	S1
SDoC/DoC	<a href="#">Download</a>

**Product List**
[Add a Product](#)

Product Name	Product Website	Product Category	▼ Publish Date	Archive Date	Model Number	Subset ID	Description	
Place Holder Product			2023-09-14		Demo		Demo	<a href="#">Withdraw Product</a>
<b>Actual Product Name</b>			2023-09-14		Demo	<b>221399</b>	Demo	<a href="#">Withdraw Product</a>

2 product(s) found

**Product Withdrawal**
✕

You must ensure that the withdrawal request meets the requirements outlined in [this Knowledge Base article](#) before you submit this withdrawal request.

This Product Listing is past its Publish Date. Bluetooth SIG will review your request and withdraw this Product Listing if the request meets the requirements. You may provide additional notes below.

**Add Note**

This is an optional field

I understand, acknowledge, and agree that by submitting this form I am requesting the SIG to withdraw Place Holder Product | Demo Product Listing under Declaration ID D065309. I hereby waive any and all claims and release and discharge Bluetooth SIG for any withdrawal or failure to withdraw by Bluetooth SIG. By clicking "Submit", I on behalf of myself and the Member company Bluetooth SIG, Inc. acknowledge the statement above and represent, covenant, and warrant I am authorized by Company to sign and submit this request on its behalf, and all information included in and with this request is true, complete, and accurate and complies with the [Bluetooth Launch Studio Terms of Use](#).

Cancel
Submit

## 3. Document revisions

Revision	Date	Editor	Changes
1.0	20 December 2023	SR, GM	Initial release.

# Contact information

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Support:	<a href="mailto:support@silvair.com"><u>support@silvair.com</u></a>
Business development:	<a href="mailto:business@silvair.com"><u>business@silvair.com</u></a>

For more information please visit:	<a href="http://www.silvair.com"><u>www.silvair.com</u></a>
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