

TN00066

Wi-Fi Alliance Derivative Certification Process

Rev. 5 — 15 September 2022

Technical note

Document information

Information	Content
Keywords	Wi-Fi Alliance (WFA), certificate qualification, certification process, derivative
Abstract	Overview of Wi-Fi Alliance certification program, the roles and responsibilities of various stakeholders, and the step-by-step procedure of the Wi-Fi derivative certification process



1 Revision history

Revision history

Rev	Date	Description
v.1	20200930	Initial version
v.2	20210113	Modifications <ul style="list-style-type: none">• Step by Step Procedure: updated the section as per new certification system from Wi-Fi Alliance
v.3	20210903	Modifications <ul style="list-style-type: none">• Certificate Qualification: added EAR00386 M.2 + LBEE0ZZ1WE-uSD-M2 the list of certified modules
v.4	20220110	Modifications <ul style="list-style-type: none">• Ported the content to NXP format. No changes in the content.
v.5	20220915	Modifications <ul style="list-style-type: none">• Section 3.2 "Certificate qualification":<ul style="list-style-type: none">. Removed the reference to 88W8977 module. Added module references for IW416 and 88W8987. Added two test plans• Section 5.1 "Sign in on Wi-Fi Alliance website and start a new application": removed the figure about 88W8977• Section 5.2 "Fill in the product information": removed the figure showing component details for 88W8977-based products

2 About this document

2.1 Purpose and scope

This document presents the overall Wi-Fi Alliance derivative certification process with the steps to follow to get derivative certification for your products.

2.2 References

Table 1. References

Reference type	Description
Overview	Wi-Fi_CERTIFIED_Derivative_Certifications_Overview_v3.2_0
Policy	Wi-Fi_Alliance_Derivative_Certifications_Policy_v4.2

3 Wi-Fi certification program

3.1 Overview

Wi-Fi CERTIFIED™ is an internationally recognized logo of approval for products indicating that they meet the industry agreed standard for interoperability, security, quality and a range of application specific protocols. It ensures the product delivers best user experience.

The Wi-Fi certification program assures tested and proven interoperability among Wi-Fi devices. This certification gives confidence that Wi-Fi product bearing Wi-Fi Certified logo have passed rigorous interoperability requirements.

Authorized Test Labs(ATL) certification is important and most of the time it is the last milestone before the product launch.

For more information, visit [Wi-Fi Alliance](#) website.

3.2 Certificate qualification

88W8801 (AW-NM191NF-uSD, EAR00386 M.2 + LBEE0ZZ1WE-uSD-M2), IW416 (AW-AM457-uSD, AW-AM510-uSD, EAR00385 M.2 + LBEE0ZZ1WE-uSD-M2), 88W8987 (AW-CM358-uSD, EAR00364 M.2 + LBEE0ZZ1WE-uSD-M2)

- STA | 802.11n (Test Plan version)
- STA | PMF (Test Plan version)
- STA | WPA3 (SAE) (Test Plan version)
- STA | 802.11ac (Test Plan version)

3.3 Roles and responsibilities

Wi-Fi Alliance

- Owner of the certification program
- Maintains policies and requirements
- Reviews ATLs results
- Final authority for the approval of Wi-Fi CERTIFIED products

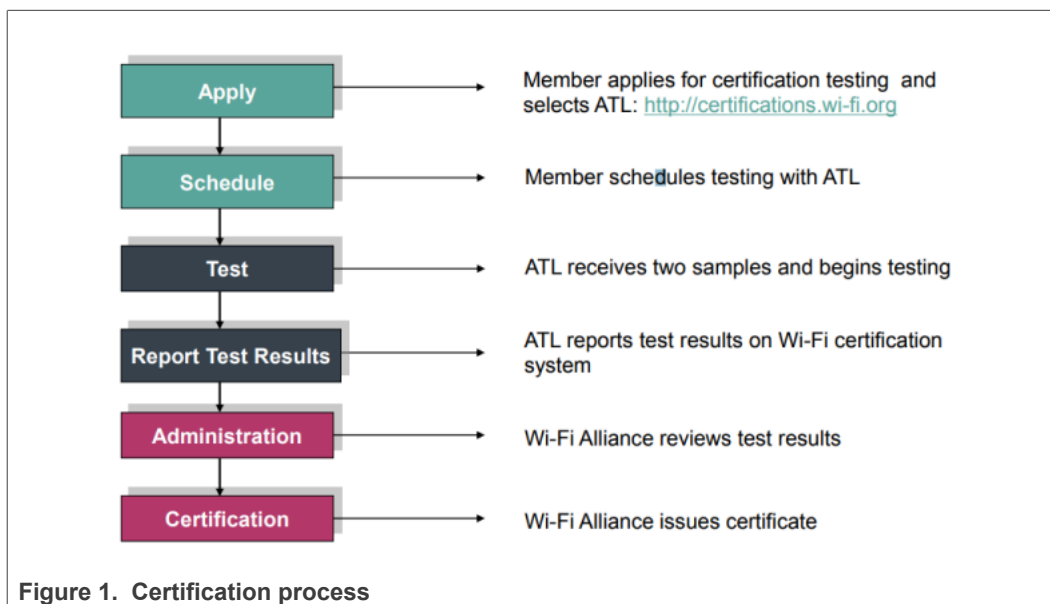
Authorized Test Labs (ATL)

- Operate as independent testing facilities
- Submit results to WFA
- Help in getting the approval for ASD

WFA members

- Acquire membership (pre-requisite to obtain certification)
- Submit products to ATLs and choose any ATL

3.4 Certification process



Note: When applying for a derivative certification, some steps of the certification process are skipped as you provide a reference to an already certified product. The process is explained in the following section.

4 Derivative certification

4.1 Overview

A derivative certification is a cost-effective way to utilize test results of a Wi-Fi CERTIFIED source product that has undergone ATL testing and Wi-Fi certification.

Multiple derivative certifications can be created from the same source product.

The new product must have the same chipset, OS, and firmware as tested in the Wi-Fi CERTIFIED source product.

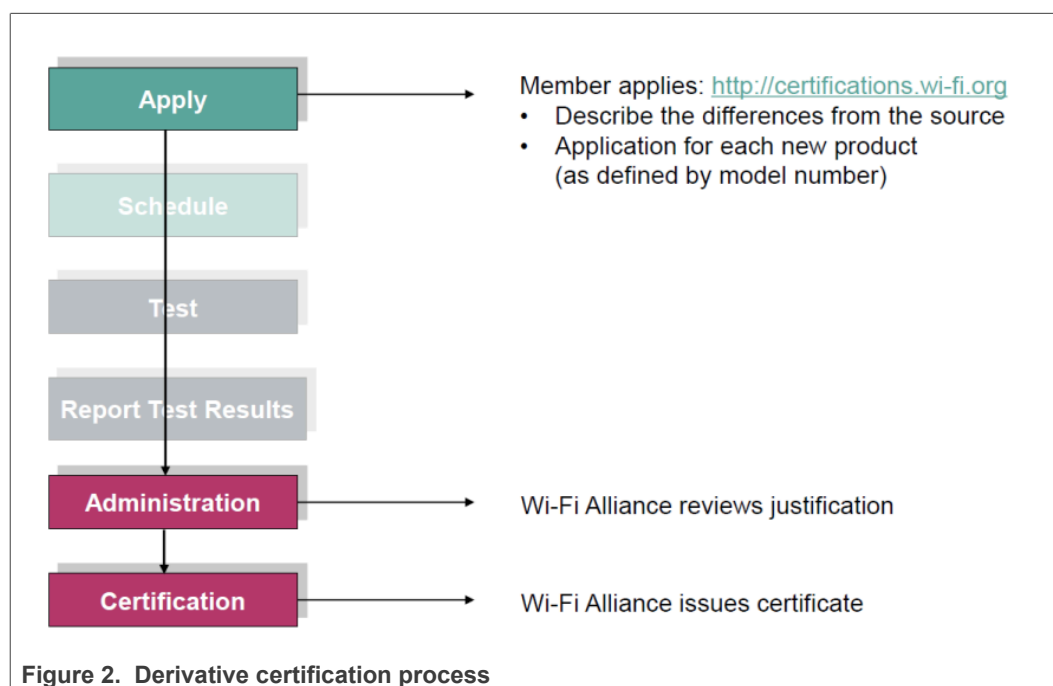
The new product must operate in the same manner as the Wi-Fi CERTIFIED source product.

Any change in the new product MUST NOT affect the wireless functionality.

A derivative certification cannot be designated as a source, and as a result, a derivative certification cannot be used to create another derivative.

4.2 Derivative certification process

Figure 2 illustrates the derivative certification process. Refer to [Section 5](#) for details on each step of the process.



5 Step by step procedure

5.1 Sign in on Wi-Fi Alliance website and start a new application

- Open Wi-Fi Alliance website ([link](#))
- Sign in as member
- Select the **New Application** tab. See [Figure 3](#).

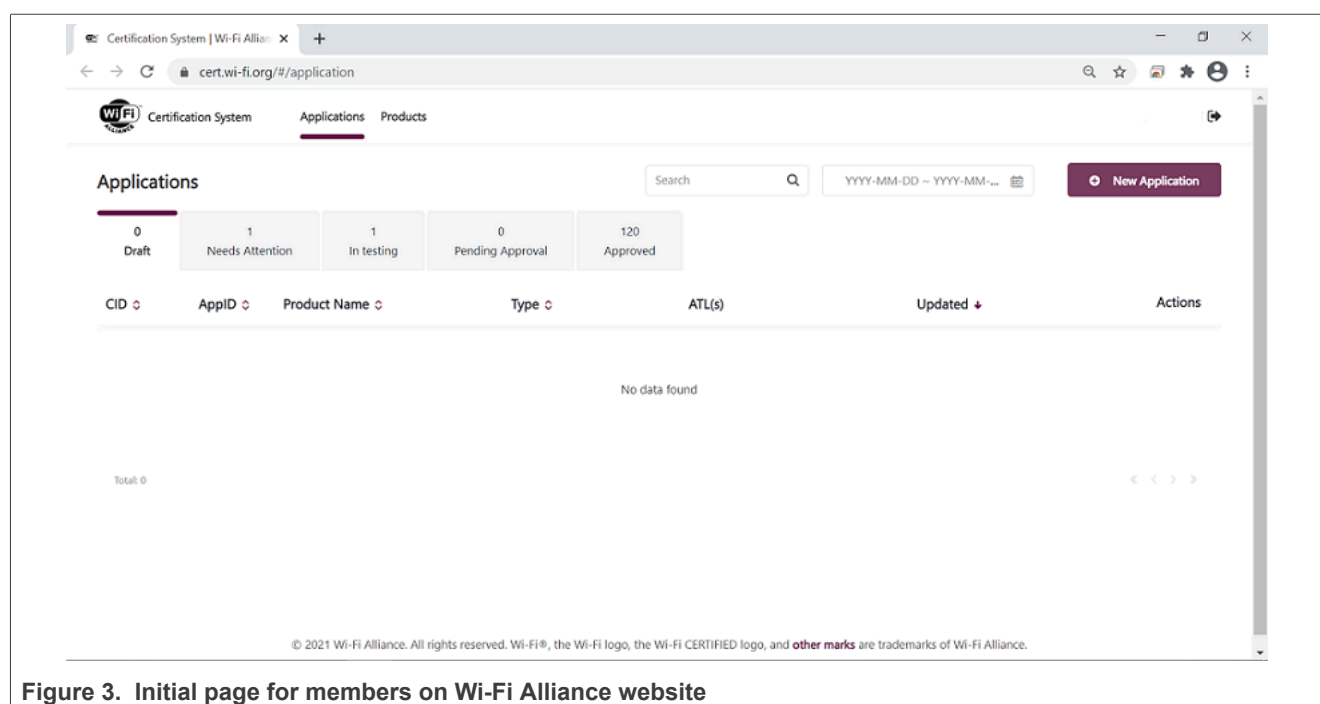


Figure 3. Initial page for members on Wi-Fi Alliance website

- On the **New application** page, select the certification type **A Derivative of Existing Product**. See [Figure 4](#).

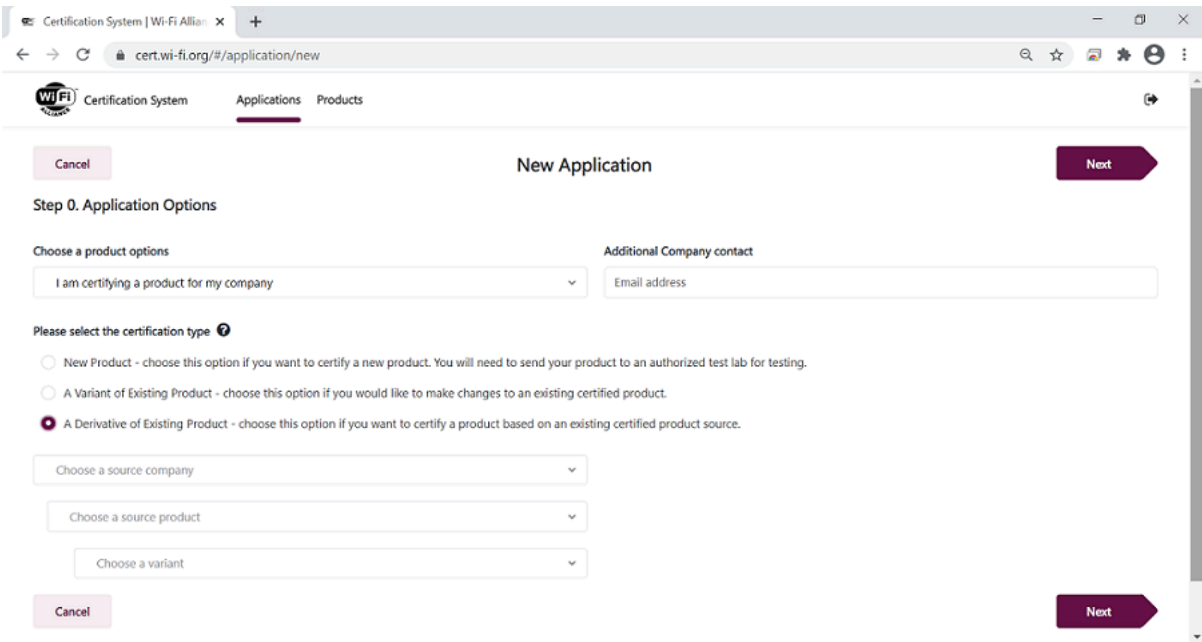


Figure 4. The New Application tab on Wi-Fi Alliance website

- In the drop-down list, select NXP as the **Source Company**
- In the second drop-down list, select the CID for a product based on a Wi-Fi component. [Figure 5](#) shows the list of CIDs based on 88W8801 product.

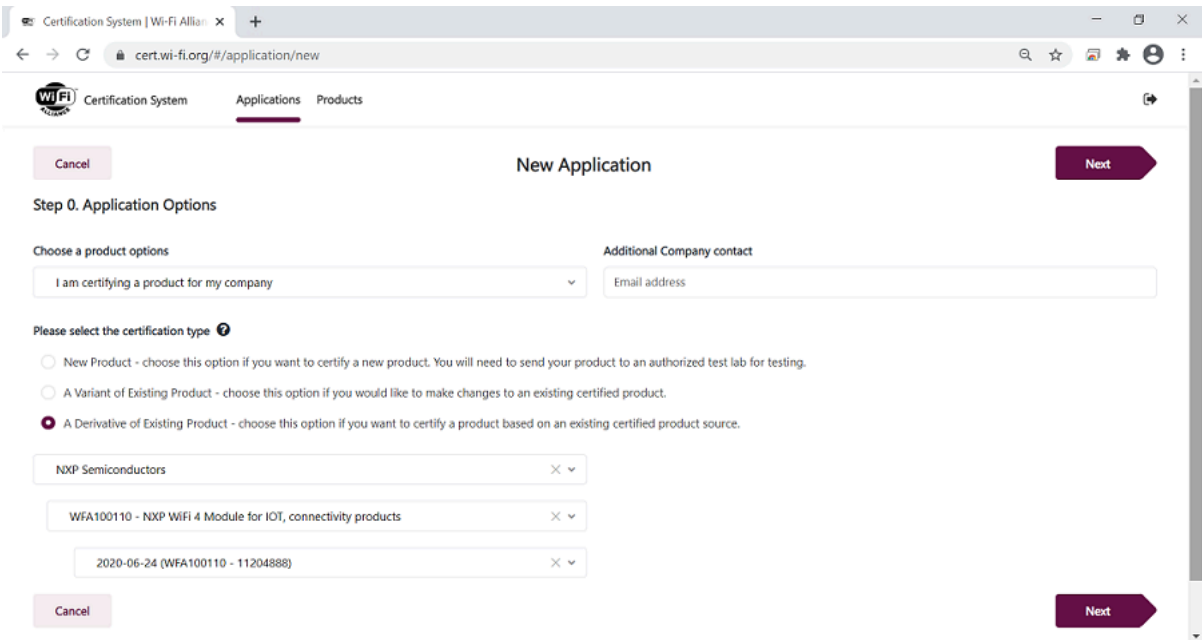


Figure 5. CID option for 88W8801-based products

- Click **Next** to open the **Product Information** page

5.2 Fill in the product information

When the **Product Information** page opens:

- Enter the **Product name** and **Variant name**
- Enter the **Module number** and provide the **Product URL**
- Select the **Primary Category of Product** in the drop-down list

Note: *Wi-Fi components cannot be modified. The list of Wi-Fi components shows for the CID option you have selected.*

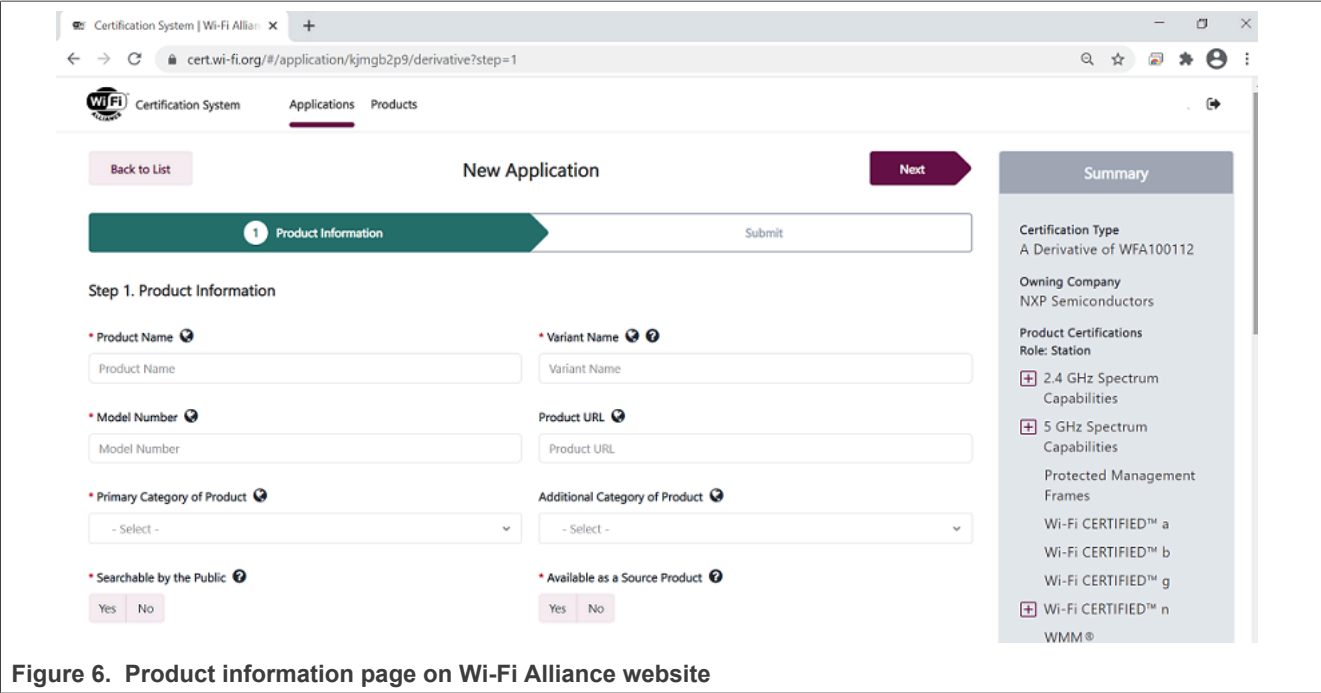


Figure 6. Product information page on Wi-Fi Alliance website

- Verify the Wi-Fi component details. [Figure 7](#) shows the details for a 88W8801-based product.

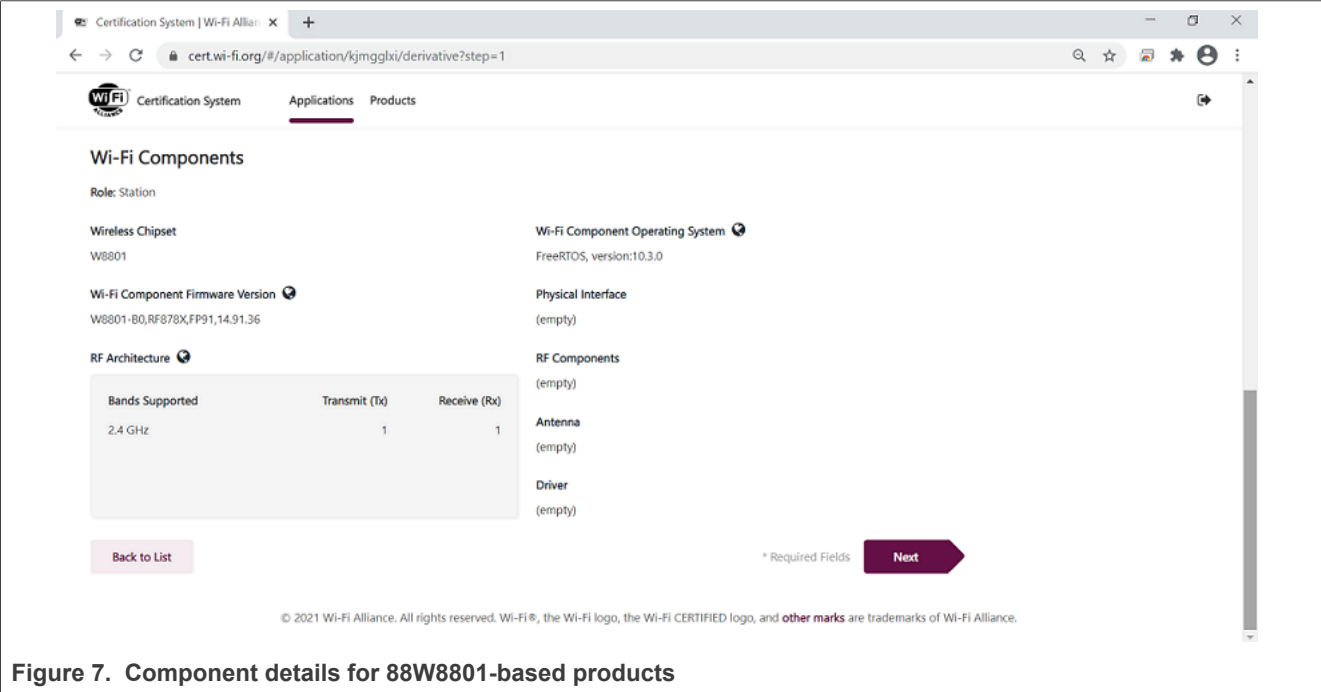


Figure 7. Component details for 88W8801-based products

- Click Next to open the page with **Wi-Fi Alliance Terms and Agreements**

5.3 Submit the application

- Tick the two check boxes to accept Wi-Fi Alliance terms and agreements as authorized member and representative of your organization. See [Figure 8](#).
- Click **Submit Application**

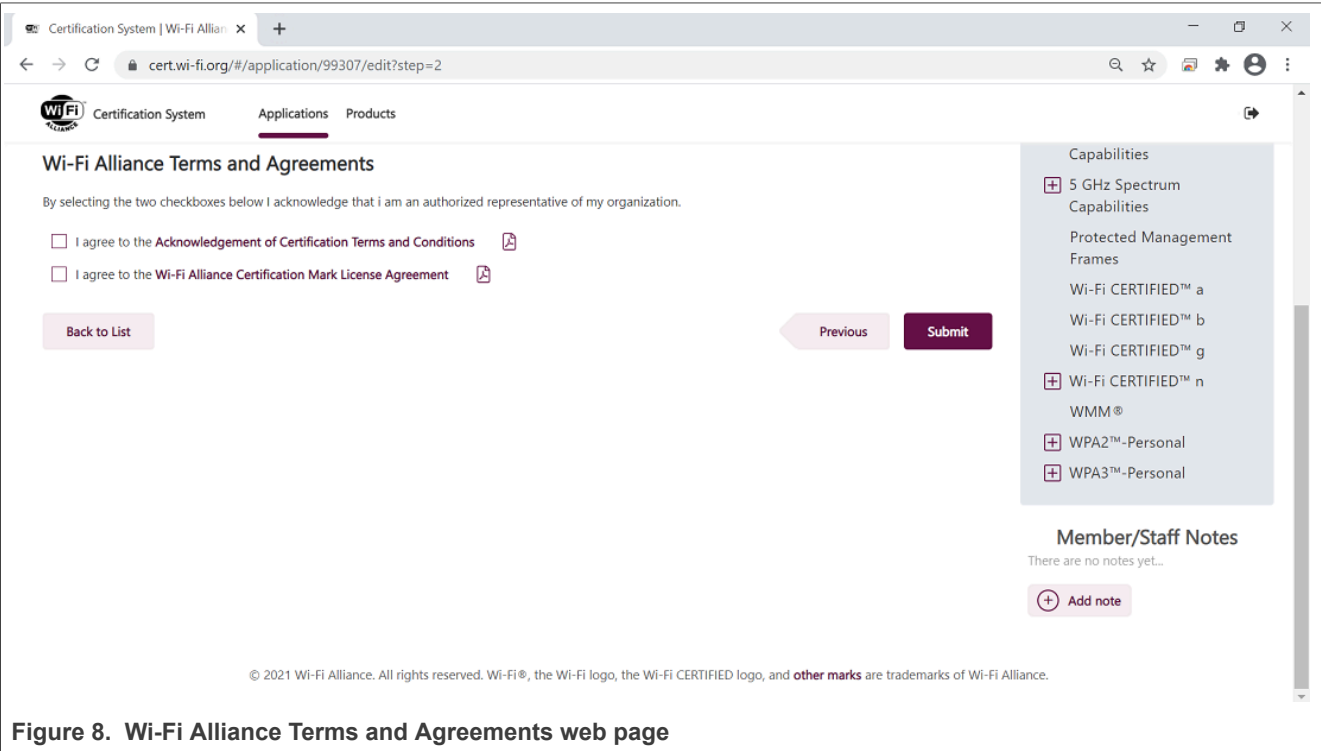


Figure 8. Wi-Fi Alliance Terms and Agreements web page

6 Obligations and outcomes for derivative certifications

- A member holding the source certification shall be informed of all approved derivative certifications.
- The member holding the source certification and the member holding the derivative certification shall both be accountable for addressing interoperability concerns.
- If interoperability concerns are found with a Derivative Certification and/or Source Certification then both certifications shall be subject to additional verification.
- If identified interoperability concern has not been resolved, the associated certifications shall be revoked.
- If information provided in the certification application(s) is found to be inaccurate, the associated certifications shall be revoked.
- If a Source Certification is revoked, all Derivative Certifications based on that Source Certification shall be revoked.
- A Member holding a Source Certification or a Derivative Certification shall be responsible for responding to Wi-Fi Alliance requests for information in support of these activities.

7 Abbreviations

Table 2. Abbreviations

Acronym	Description
ATL	Authorized test labs
CID	Certification identification number

8 Legal information

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