

# TN00066

## Wi-Fi Alliance Derivative Certification Process

Rev. 8 — 9 January 2024

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 About this document

### 1.1 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.

### 1.2 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

## 2 Wi-Fi certification program

### 2.1 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](https://www.wi-fi.com) website.

### 2.2 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), IW612 (EAR00409 M.2+ LBEE0ZZ2WE-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)
- STA | FFD
- STA | SVD
- STA | WPA3 SAE (R3)
- STA | 802.11ax

### 2.3 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

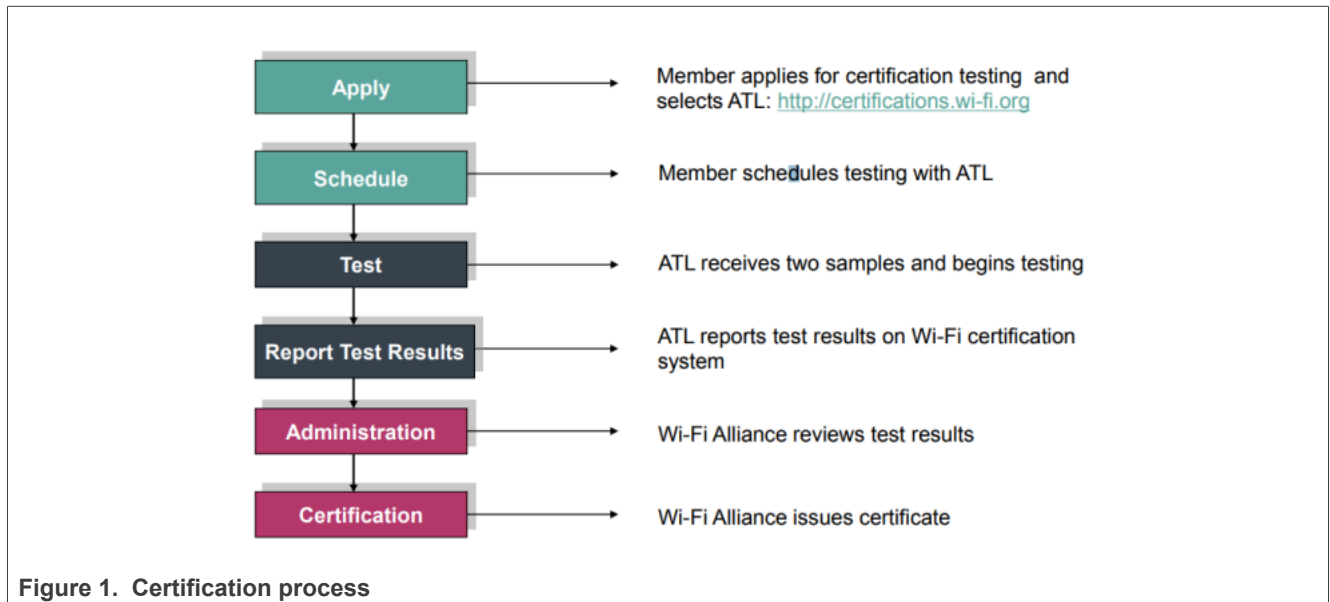
#### Authorized Test Labs (ATL)

- 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

## 2.4 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.

### 3 Derivative certification

#### 3.1 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.

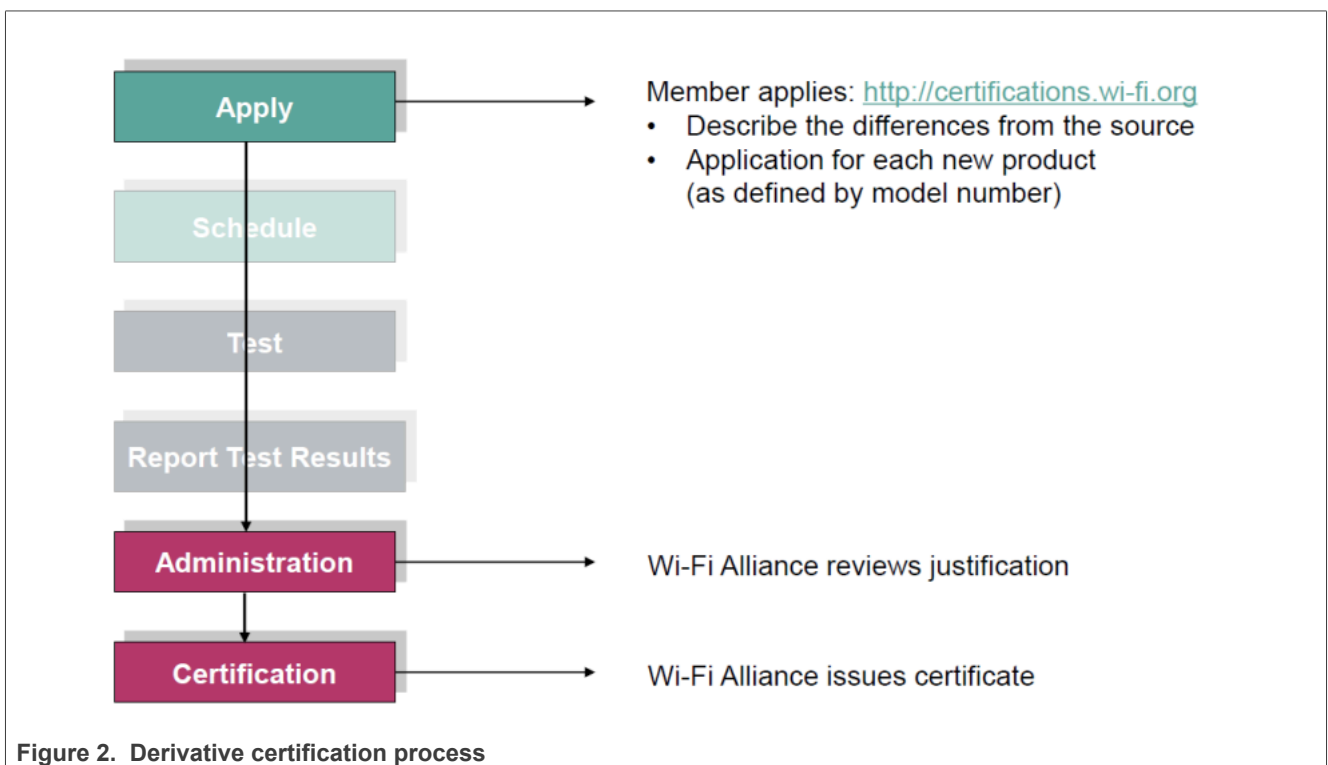
The new product must operate in the same manner as the Wi-Fi CERTIFIED source product.

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.

#### 3.2 Derivative certification process

Figure 2 illustrates the derivative certification process. Refer to Section 4 for details on each step of the process.



## 4 Step by step procedure

### 4.1 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](#).

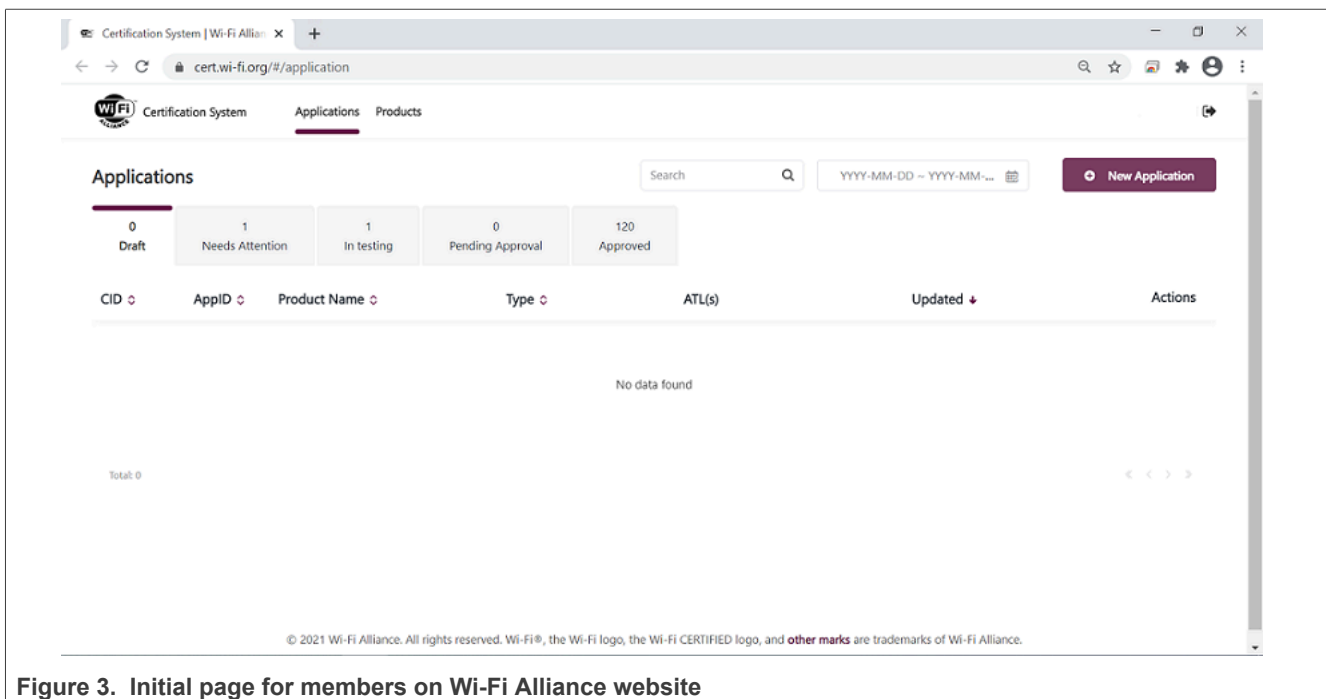


Figure 3. Initial page for members on Wi-Fi Alliance website

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

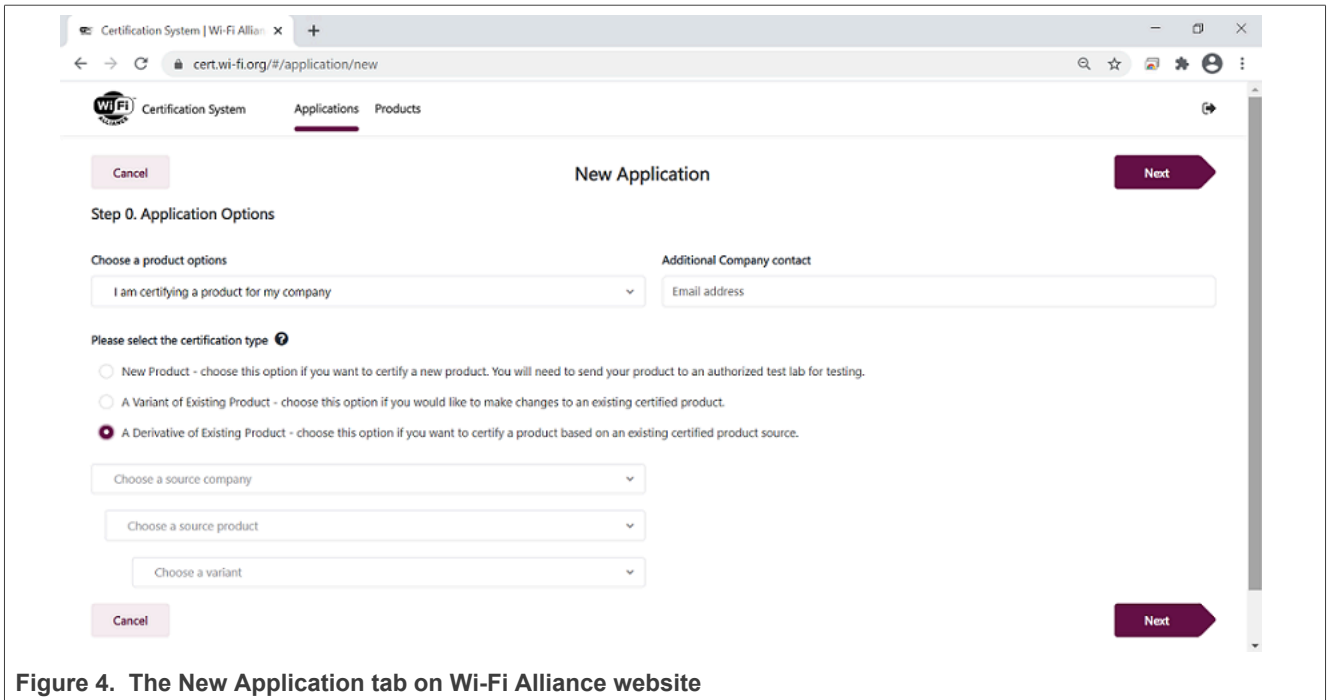


Figure 4. The New Application tab on Wi-Fi Alliance website

- 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.

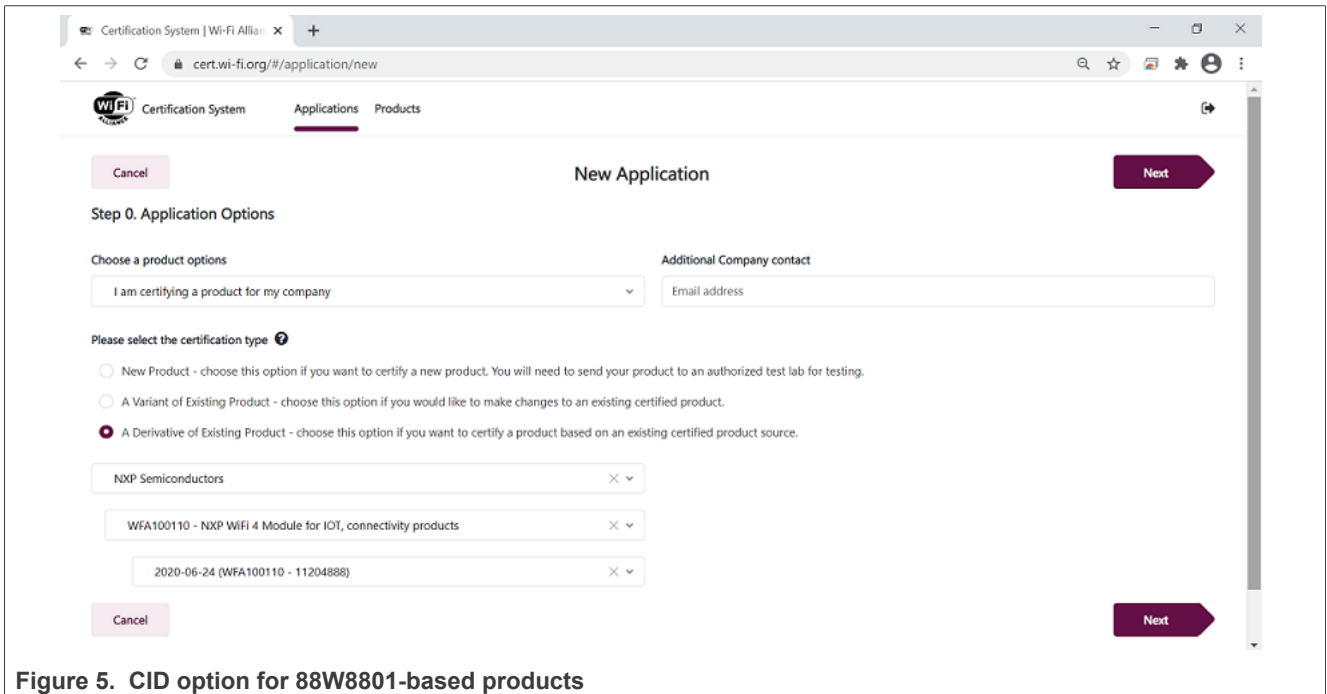


Figure 5. CID option for 88W8801-based products

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

### 4.2 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.*

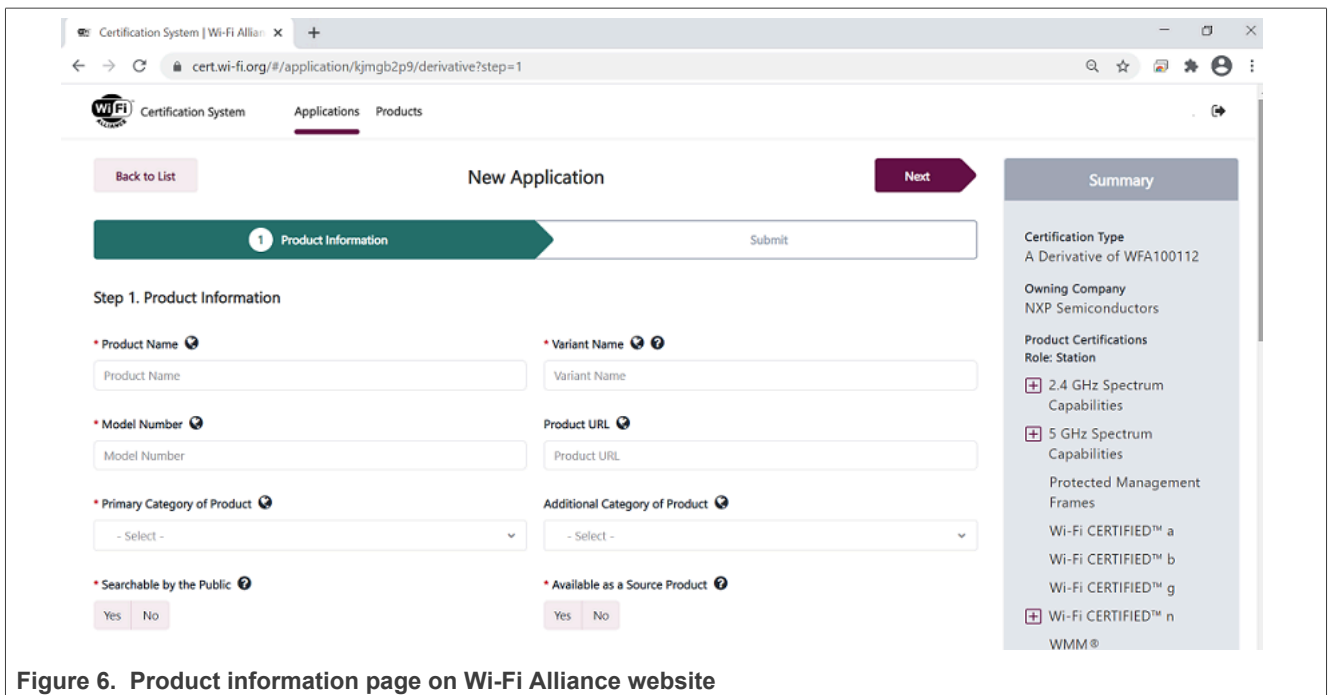


Figure 6. Product information page on Wi-Fi Alliance website



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

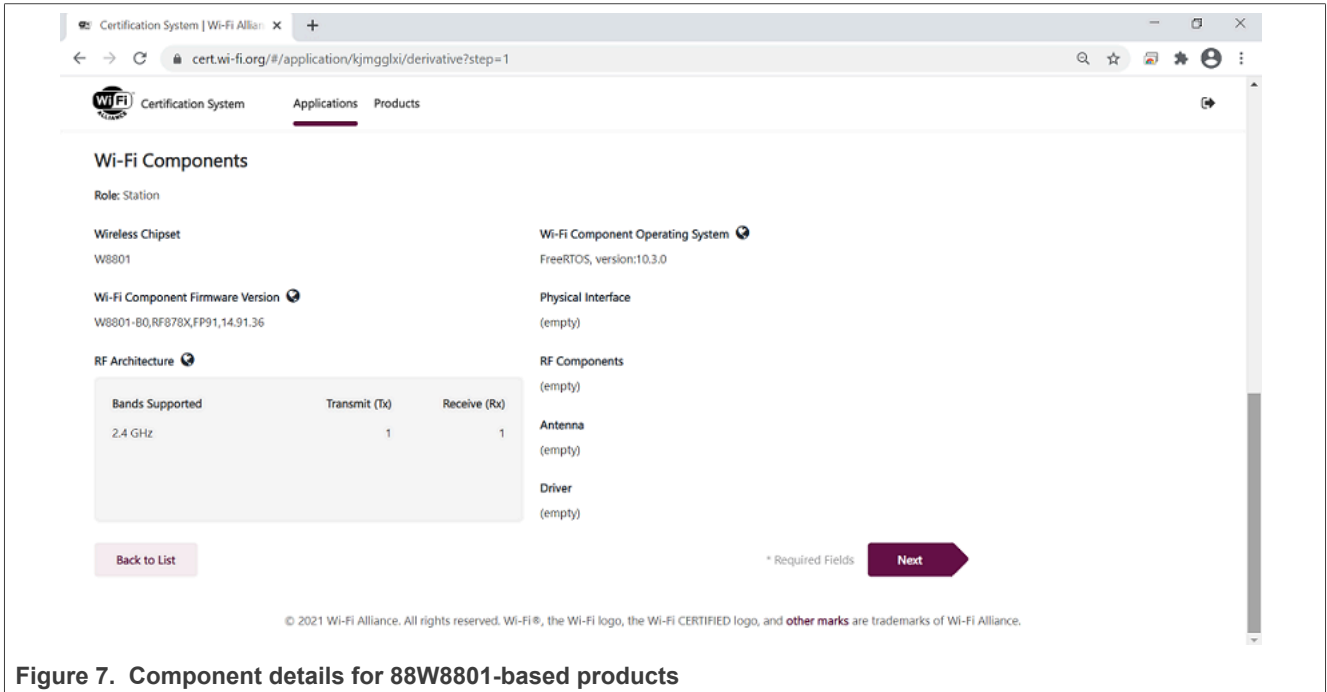


Figure 7. Component details for 88W8801-based products

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

### 4.3 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**

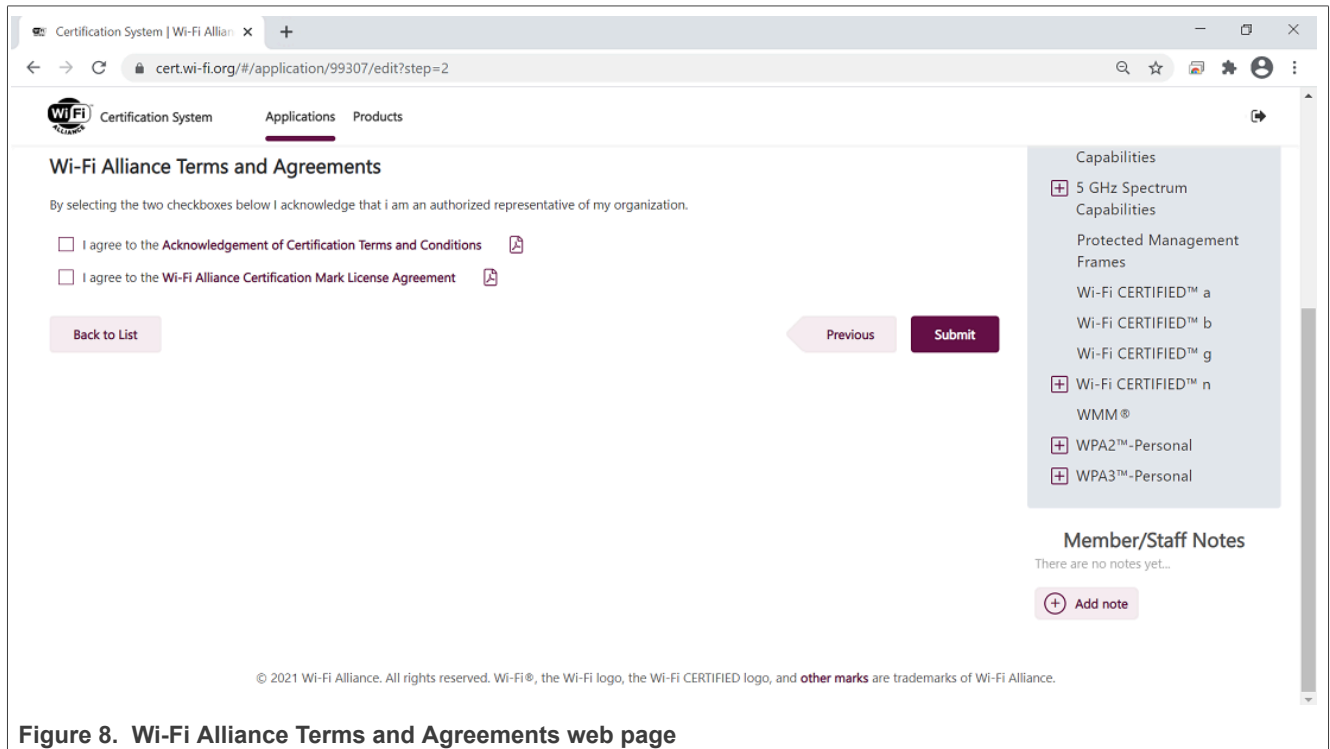


Figure 8. Wi-Fi Alliance Terms and Agreements web page

## 5 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.

## 6 Abbreviations

Table 2. Abbreviations

Acronym	Description
ATL	Authorized test labs
CID	Certification identification number

## 7 Revision history

### Revision history

Document ID	Date	Description
AN12918 v.8	9 January 2024	<ul style="list-style-type: none"> <li><a href="#">Section 2.2 "Certificate qualification"</a>: removed the footnote about IW612 module support.</li> </ul>
AN12918 v.7	13 October 2023	<ul style="list-style-type: none"> <li><a href="#">Section 2.2 "Certificate qualification"</a>: added STA 802.11ax.</li> </ul>
AN12918 v.6	29 June 2023	<ul style="list-style-type: none"> <li><a href="#">Section 2.2 "Certificate qualification"</a>: added IW612, STA   FFD, STA   SVD, and STA   WPA3 SAE (R3)</li> </ul>
AN12918 v.5	15 September 2022	<ul style="list-style-type: none"> <li><a href="#">Section 2.2 "Certificate qualification"</a>: <ul style="list-style-type: none"> <li>. Removed the reference to 88W8977 module</li> <li>. Added module references for IW416 and 88W8987</li> <li>. Added two test plans</li> </ul> </li> <li><a href="#">Section 4.1 "Sign in on Wi-Fi Alliance website and start a new application"</a>: removed the figure about 88W8977</li> <li><a href="#">Section 4.2 "Fill in the product information"</a>: removed the figure showing component details for 88W8977-based products</li> </ul>
AN12918 v.4	10 January 2022	<ul style="list-style-type: none"> <li>Ported the content to NXP format. No changes in the content.</li> </ul>
AN12918 v.3	3 September 2021	<ul style="list-style-type: none"> <li>Certificate Qualification: added EAR00386 M.2 + LBEE0ZZ1WE-uSD-M2 the list of certified modules</li> </ul>
AN12918 v.2	13 January 2021	<ul style="list-style-type: none"> <li>Step by Step Procedure: updated the section as per new certification system from Wi-Fi Alliance</li> </ul>
AN12918 v.1	30 September 2020	Initial version

## Legal information

### Definitions

**Draft** — A draft status on a document indicates that the content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included in a draft version of a document and shall have no liability for the consequences of use of such information.

### Disclaimers

**Limited warranty and liability** — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors.

**Right to make changes** — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

**Suitability for use** — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors and its suppliers accept no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

**Applications** — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

**Terms and conditions of commercial sale** — NXP Semiconductors products are sold subject to the general terms and conditions of commercial sale, as published at <https://www.nxp.com/profile/terms>, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. NXP Semiconductors hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of NXP Semiconductors products by customer.

**Export control** — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

**Suitability for use in non-automotive qualified products** — Unless this document expressly states that this specific NXP Semiconductors product is automotive qualified, the product is not suitable for automotive use. It is neither qualified nor tested in accordance with automotive testing or application requirements. NXP Semiconductors accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications.

In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without NXP Semiconductors' warranty of the product for such automotive applications, use and specifications, and (b) whenever customer uses the product for automotive applications beyond NXP Semiconductors' specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies NXP Semiconductors for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond NXP Semiconductors' standard warranty and NXP Semiconductors' product specifications.

**Translations** — A non-English (translated) version of a document, including the legal information in that document, is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

**Security** — Customer understands that all NXP products may be subject to unidentified vulnerabilities or may support established security standards or specifications with known limitations. Customer is responsible for the design and operation of its applications and products throughout their lifecycles to reduce the effect of these vulnerabilities on customer's applications and products. Customer's responsibility also extends to other open and/or proprietary technologies supported by NXP products for use in customer's applications. NXP accepts no liability for any vulnerability. Customer should regularly check security updates from NXP and follow up appropriately. Customer shall select products with security features that best meet rules, regulations, and standards of the intended application and make the ultimate design decisions regarding its products and is solely responsible for compliance with all legal, regulatory, and security related requirements concerning its products, regardless of any information or support that may be provided by NXP.

NXP has a Product Security Incident Response Team (PSIRT) (reachable at [PSIRT@nxp.com](mailto:PSIRT@nxp.com)) that manages the investigation, reporting, and solution release to security vulnerabilities of NXP products.

**NXP B.V.** — NXP B.V. is not an operating company and it does not distribute or sell products.

### Trademarks

Notice: All referenced brands, product names, service names, and trademarks are the property of their respective owners.

**NXP** — wordmark and logo are trademarks of NXP B.V.

**i.MX** — is a trademark of NXP B.V.

**Tables**

Tab. 1. References ..... 2      Tab. 2. Abbreviations ..... 11

**Figures**

Fig. 1. Certification process ..... 4	Fig. 6. Product information page on Wi-Fi Alliance website ..... 8
Fig. 2. Derivative certification process ..... 5	Fig. 7. Component details for 88W8801-based products ..... 9
Fig. 3. Initial page for members on Wi-Fi Alliance website ..... 6	Fig. 8. Wi-Fi Alliance Terms and Agreements web page ..... 10
Fig. 4. The New Application tab on Wi-Fi Alliance website ..... 7	
Fig. 5. CID option for 88W8801-based products ..... 7	

---

## Contents

---

<b>1</b>	<b>About this document</b> .....	<b>2</b>
1.1	Purpose and scope .....	2
1.2	References .....	2
<b>2</b>	<b>Wi-Fi certification program</b> .....	<b>3</b>
2.1	Overview .....	3
2.2	Certificate qualification .....	3
2.3	Roles and responsibilities .....	3
2.4	Certification process .....	4
<b>3</b>	<b>Derivative certification</b> .....	<b>5</b>
3.1	Overview .....	5
3.2	Derivative certification process .....	5
<b>4</b>	<b>Step by step procedure</b> .....	<b>6</b>
4.1	Sign in on Wi-Fi Alliance website and start a new application .....	6
4.2	Fill in the product information .....	8
4.3	Submit the application .....	10
<b>5</b>	<b>Obligations and outcomes for derivative certifications</b> .....	<b>11</b>
<b>6</b>	<b>Abbreviations</b> .....	<b>11</b>
<b>7</b>	<b>Revision history</b> .....	<b>12</b>
	<b>Legal information</b> .....	<b>13</b>

---

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.

---