# **TN00066**

# **Wi-Fi Alliance Derivative Certification Process**

Rev. 9 — 26 June 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 |



**Wi-Fi Alliance Derivative Certification Process** 

### 1 About this document

### 1.1 Purpose and scope

This document presents the overall Wi-Fi Alliance derivative certification process [2], and how to get derivative certification for your products.

Wi-Fi Alliance Derivative Certification Process

### 2 Wi-Fi certification program

#### 2.1 Overview

Wi-Fi CERTIFIED™ [1] 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 the 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].

#### 2.2 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), IW611 (EAR00422 M.2 + LBEE5PL2DL-uSD-M2), AW611 (JODY-W5 M.2)

- 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

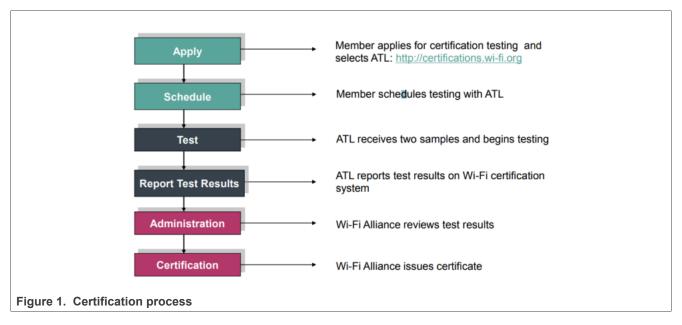
- Acquire membership (pre-requisite to obtain certification)
- · Submit products to ATLs and choose any ATL

TN0006

<sup>1</sup> AW611 module support is available only in i.MX RT1180 EVKA and SDK version 2.16.0.

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### 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.

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### 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.

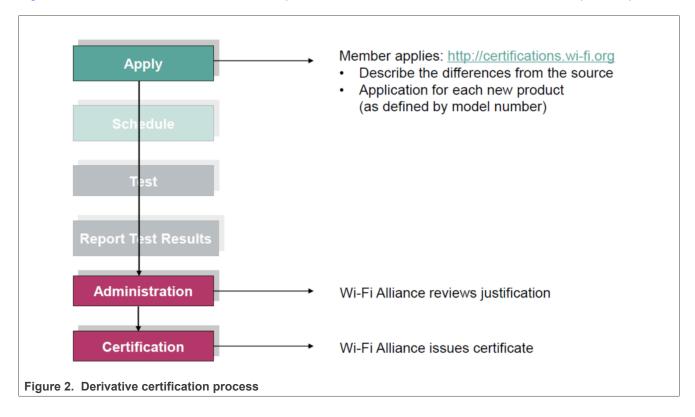
The new product must operate in the same manner as the Wi-Fi CERTIFIED source product.

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.

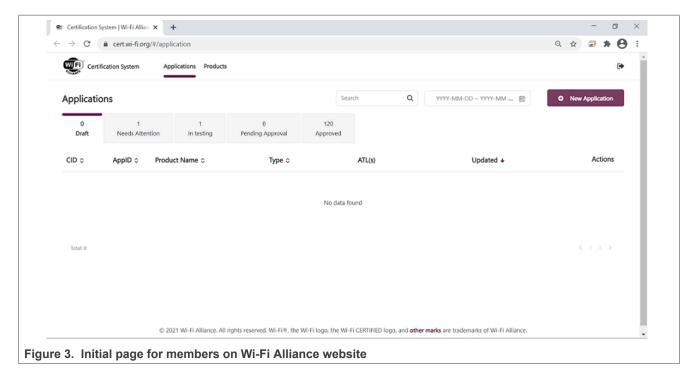


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## 4 Step by step procedure

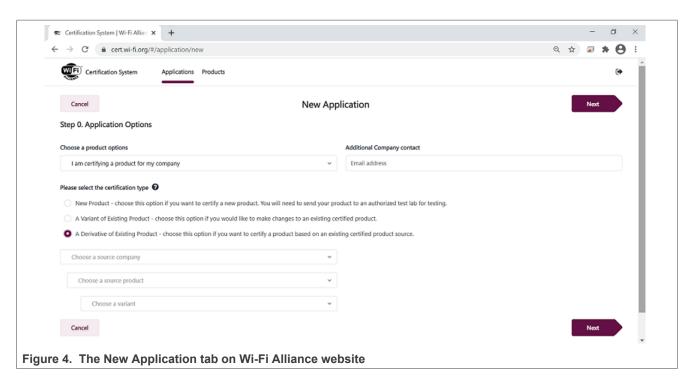
### 4.1 Sign in on Wi-Fi Alliance website and start a new application

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

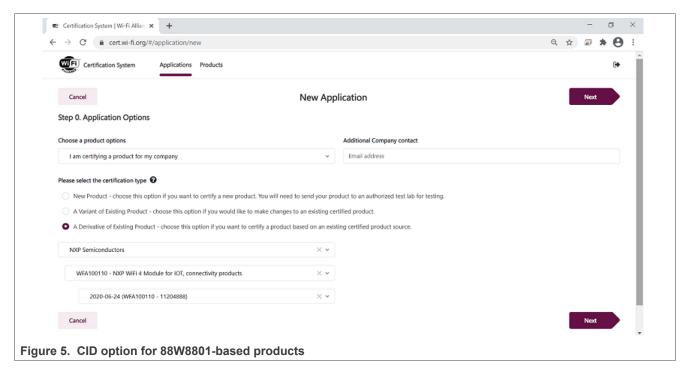


• On the New application page, select the certification type A Derivative of Existing Product. See Figure 4.

#### **Wi-Fi Alliance Derivative Certification Process**



- 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.



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

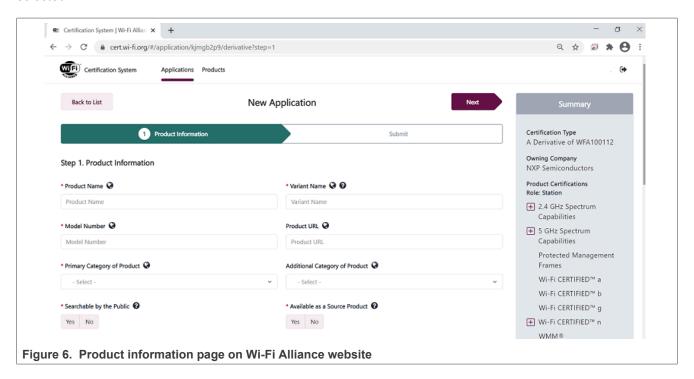
#### Wi-Fi Alliance Derivative Certification Process

### 4.2 Fill in the product information

When the **Product Information** page opens:

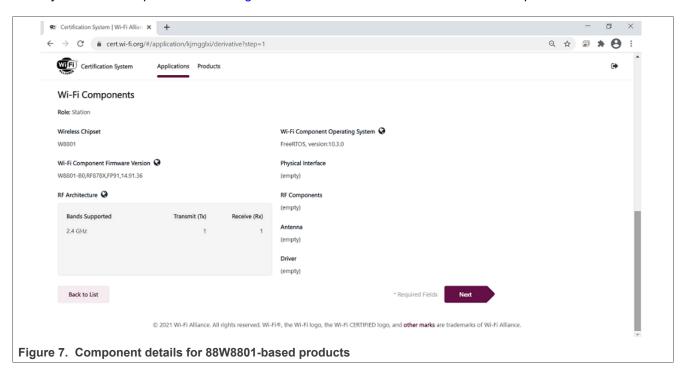
- Enter the Product name and Variant name
- Enter the Module number and provide the Product URL
- Select the Primary Category of Product in the drop-down list

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



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• Verify the Wi-Fi component details. Figure 7 shows the details for a 88W8801-based product.

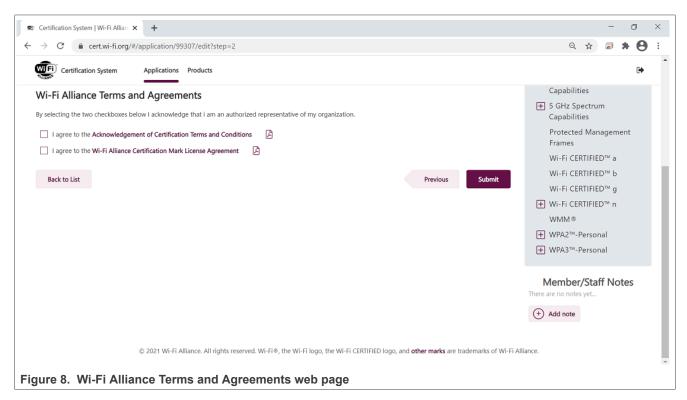


• Click Next to open the page with Wi-Fi Alliance Terms and Agreements

#### Wi-Fi Alliance Derivative Certification Process

### 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



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# 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.

### **Wi-Fi Alliance Derivative Certification Process**

### 6 Abbreviations

#### Table 1. Abbreviations

| Acronym | Description                         |
|---------|-------------------------------------|
| ATL     | Authorized test labs                |
| CID     | Certification identification number |

### **Wi-Fi Alliance Derivative Certification Process**

### 7 References

- [1] Wi-Fi\_CERTIFIED\_Derivative\_Certifications\_Overview\_v3.2\_0
- [2] Wi-Fi\_Alliance\_Derivative\_Certifications\_Policy\_v4.2
- [3] Wi-Fi Alliance website (link)

### Wi-Fi Alliance Derivative Certification Process

# 8 Revision history

#### **Revision history**

| Document ID | Date              | Description  |
|-------------|-------------------|--|
| TN00066 v.9 | 26 June 2024      | Section 2.2 "Certificate qualification": added IW611 and AW611.     Section 7 "References": updated.   |
| TN00066 v.8 | 9 January 2024    | <u>Section 2.2 "Certificate qualification"</u> : removed the footnote about IW612 module support.  |
| TN00066 v.7 | 13 October 2023   | Section 2.2 "Certificate qualification": added STA 802.11ax.   |
| TN00066 v.6 | 29 June 2023      | <u>Section 2.2 "Certificate qualification"</u> : added IW612, STA   FFD, STA   SVD, and STA   WPA3 SAE (R3)  |
| TN00066 v.5 | 15 September 2022 | Section 2.2 "Certificate qualification":     Removed the reference to 88W8977 module     Added module references for IW416 and 88W8987     Added two test plans     Section 4.1 "Sign in on Wi-Fi Alliance website and start a new application": removed the figure about 88W8977     Section 4.2 "Fill in the product information": removed the figure showing component details for 88W8977-based products |
| TN00066 v.4 | 10 January 2022   | Ported the content to NXP format. No changes in the content.   |
| TN00066 v.3 | 3 September 2021  | Certificate Qualification: added EAR00386 M.2 + LBEE0ZZ1WE-uSD-M2 the list of certified modules  |
| TN00066 v.2 | 13 January 2021   | Step by Step Procedure: updated the section as per new certification system from Wi-Fi Alliance  |
| TN00066 v.1 | 30 September 2020 | Initial version  |

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