

# AN13681

## Wi-Fi Alliance Derivative Certification Process for RW61x

Rev. 1 — 12 December 2023

Application note  
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### Document information

Information	Content
Keywords	Wi-Fi Alliance (WFA), certificate qualification, certification process, derivative, RW610, RW612
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.org/) website.

### 2.2 Certificate qualification

RW610, RW612

- STA | 802.11n
- STA | PMF
- STA | WPA3 (SAE)
- STA | 802.11ac
- 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

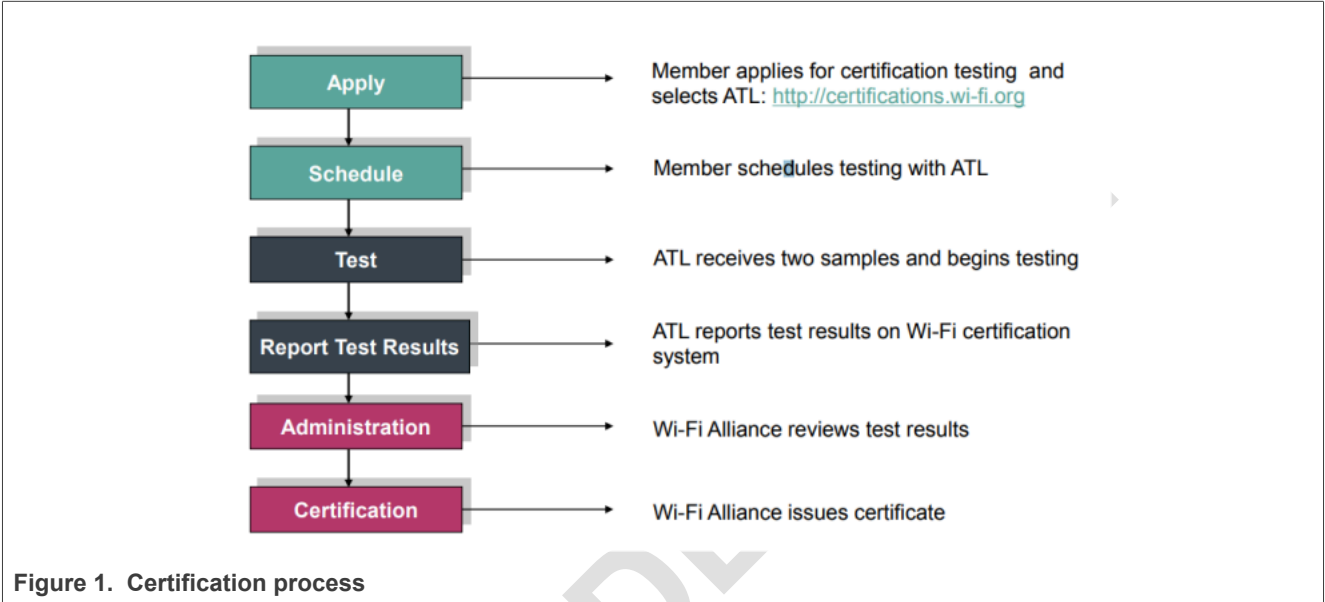
#### Authorized Test Labs (ATL)

- 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.

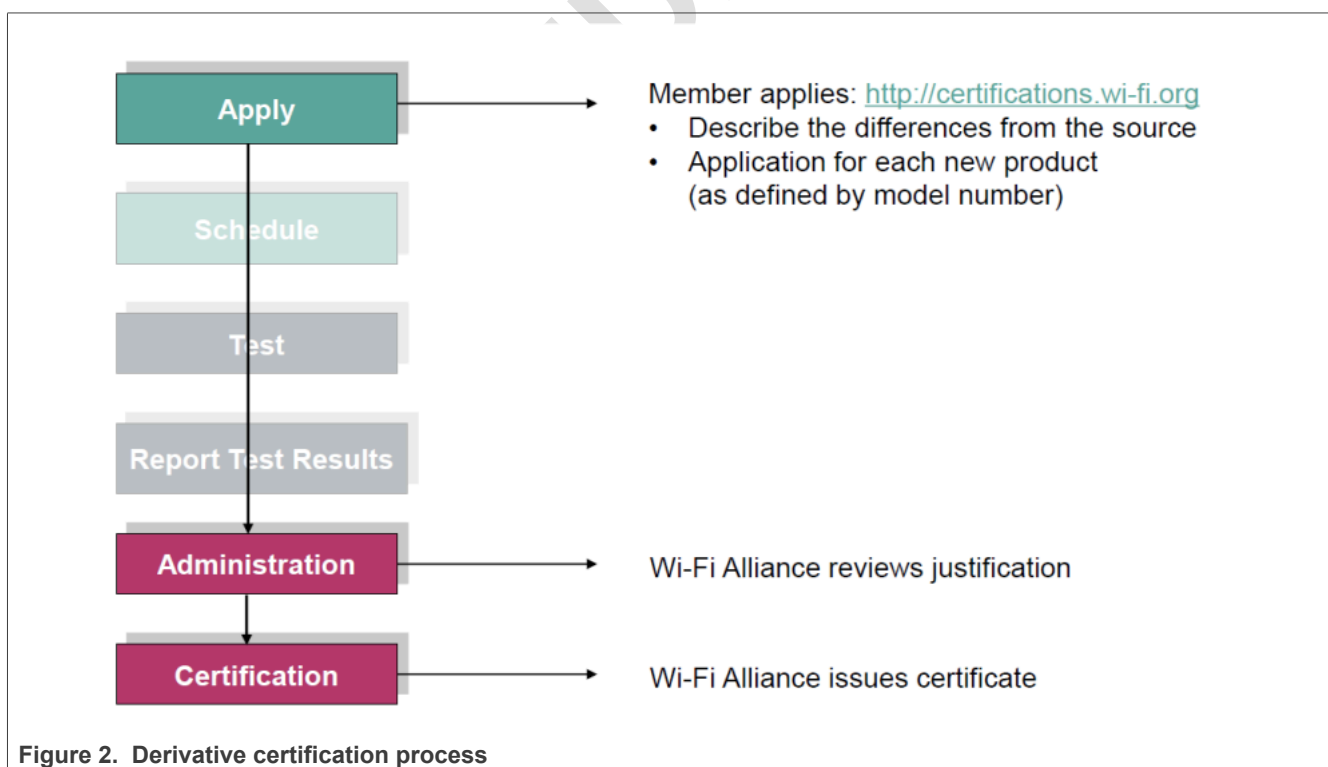
The new product must operate in the same manner as the Wi-Fi CERTIFIED source product.

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](#).

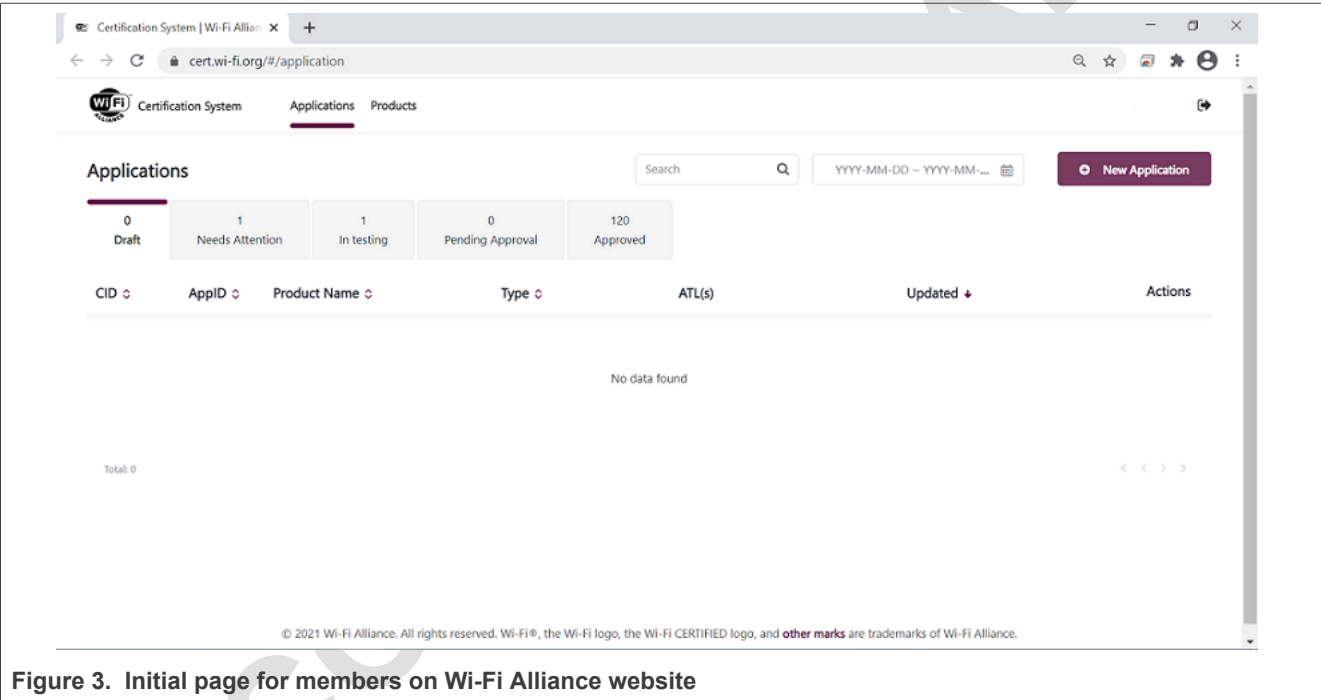


Figure 3. Initial page for members on Wi-Fi Alliance website

- 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 RW610 or RW612:
  - RW610: WFA127282
  - RW612: WFA127813
- 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.*

The screenshot displays the 'New Application' page in the Wi-Fi Alliance Certification System. The page is titled 'Step 1. Product Information' and includes a 'Submit' button. The form contains the following fields and options:

- Product Name:** Text input field.
- Variant Name:** Text input field.
- Model Number:** Text input field.
- Product URL:** Text input field.
- Primary Category of Product:** Dropdown menu with '- Select -'.
- Additional Category of Product:** Dropdown menu with '- Select -'.
- Searchable by the Public:** Radio buttons for 'Yes' and 'No'.
- Available as a Source Product:** Radio buttons for 'Yes' and 'No'.

The 'Summary' sidebar on the right provides a overview of the application details:

- Certification Type:** A Derivative of WFA100112
- Owning Company:** NXP Semiconductors
- Product Certifications Role:** Station
- Selected Components:**
  - 2.4 GHz Spectrum Capabilities
  - 5 GHz Spectrum Capabilities
  - Protected Management Frames
  - Wi-Fi CERTIFIED™ a
  - Wi-Fi CERTIFIED™ b
  - Wi-Fi CERTIFIED™ g
  - Wi-Fi CERTIFIED™ n
  - WMM®

Figure 5. Product information page on Wi-Fi Alliance website

- Verify the Wi-Fi component details.
- 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 6](#).
- Click **Submit Application**

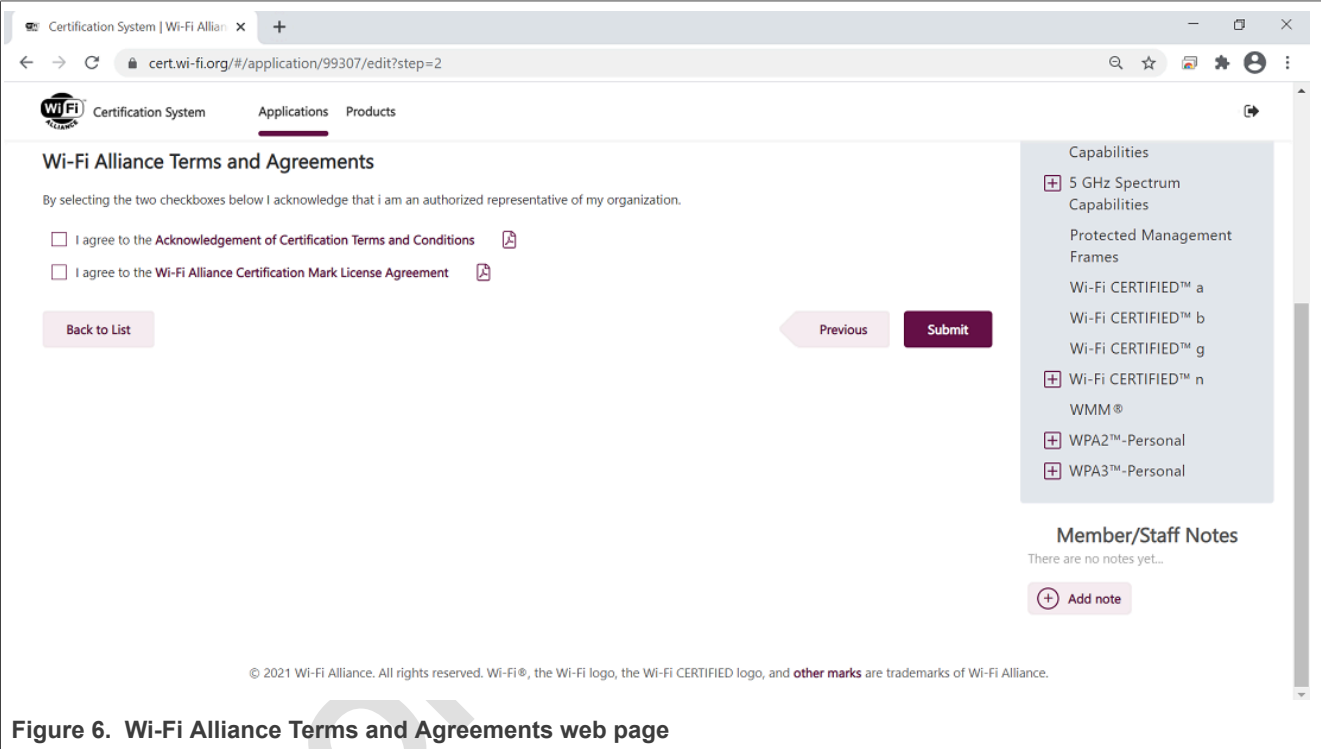


Figure 6. Wi-Fi Alliance Terms and Agreements web page

## 5 Obligations and outcomes for derivative certifications

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- 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.

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## 6 Abbreviations

Table 2. Abbreviations

Acronym	Description
ATL	Authorized test labs
CID	Certification identification number

## 7 Revision history

Table 3. Revision history

Document ID	Release date	Description
AN13681 v.1.0	12 December 2023	<ul style="list-style-type: none"><li>Initial version</li></ul>

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