

# AN12976

## Wi-Fi Alliance Derivative Certification Process

Rev. 7.0 — 23 September 2025

Application note

### Document information

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



## 1 About this document

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The document presents the Wi-Fi Alliance derivative certification process.

### 1.1 Supported products

List of supported wireless products:

- 88W8801 ([ref.\[1\]](#))
- 88W8987 ([ref.\[2\]](#))
- 88W8997 ([ref.\[3\]](#))
- 88W9098 ([ref.\[4\]](#))
- IW416 ([ref.\[5\]](#))
- AW611 ([ref.\[7\]](#))
- IW611 ([ref.\[8\]](#))
- IW612 ([ref.\[9\]](#))
- IW610 ([ref.\[6\]](#))
- AW693 ([ref.\[10\]](#))

## 2 Wi-Fi certification program

The Wi-Fi CERTIFIED™ logo on a product certifies the compliance with the industry agreed standard for interoperability, security, quality and a range of application specific protocols.

The Wi-Fi certification program guarantees tested and proven interoperability among Wi-Fi devices.

The Wi-Fi certification is an important milestone before the product launch. You can complete this last milestone at an authorized test laboratory (ATL) or at a solution test laboratory (STL).

For more information, visit [ref.\[11\]](#).

### 2.1 Certificate qualification

#### 2.1.1 88W8801 (LBWA0ZZ2DS)

- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3

#### 2.1.2 88W8987 (LBEE5QD1ZM)

- Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3

#### 2.1.3 88W8997 (LBEE5XV1YM)

- Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3

#### 2.1.4 88W9098 (LBEE5ZZ1XL)

- STA | WiFi6 11ax
- STA | Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3
- STA | Agile Multiband (MBO)

#### 2.1.5 IW416 (LBEE5CJ1XK)

- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3

#### 2.1.6 IW612 (LBES5PL2EL)

- STA | WiFi6 11ax
- STA | Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3
- STA | Agile Multiband (MBO)

#### 2.1.7 IW610 (LBES0ZZ2LL)

- STA | WiFi6 11ax
- STA | Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3
- STA | Agile Multiband (MBO)

### 2.1.8 AW693 (JODY-W6 )

- STA | WiFi6/6E 11ax
- STA | Wi-Fi CERTIFIED ac
- STA | Wi-Fi CERTIFIED n
- STA | PMF
- STA | VU
- STA | FFD
- STA | Security Improvement
- STA | WPA2
- STA | WPA-SAE R3
- STA | Agile Multiband (MBO)

## 2.2 Roles and responsibilities

### Wi-Fi Alliance (WFA)

- Owns the certification program.
- Maintains the policies and requirements.
- Reviews the ATL results.
- Owns the final approval of Wi-Fi CERTIFIED products.

### Authorized Test Laboratories (ATL)

- Operate as independent testing facilities.
- Submit the results to the Wi-Fi Alliance.
- Provide support for the ASD approval.
- Certify Wi-Fi products from any vendor.

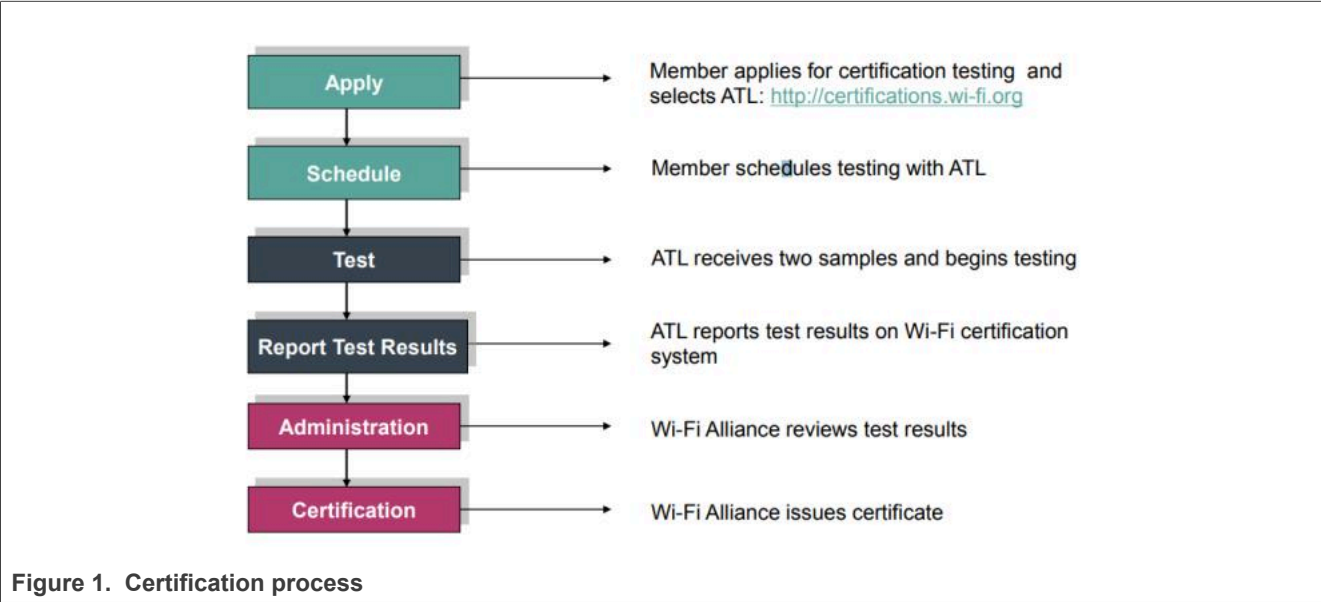
### Solution Test Laboratories (STL)

- The Wi-Fi Alliance (WFA) grants the STL accreditation for Wi-Fi products.
- NXP is a Wi-Fi Alliance STL.
- The STLs:
  - Test and validate the compliance of Wi-Fi products with IEEE 802.11 standards.
  - Only certify the Wi-Fi products from the solution provider.

### WFA members

- Acquire a membership (pre-requisite to obtain certification).
- Select a laboratory.
- Deliver the products to the laboratory.

2.3 Certification process



**Note:** Some steps of the certification process are skipped for a derivative certification. The process is explained in the following section.

### 3 Derivative certification

A derivative certification is a cost-effective way to utilize test results of a Wi-Fi CERTIFIED source product.

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

The new product must have the same silicon, operating system, and firmware as 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.

A derivative certification cannot be used to seek another derivative certification.

#### 3.1 Derivative certification process

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

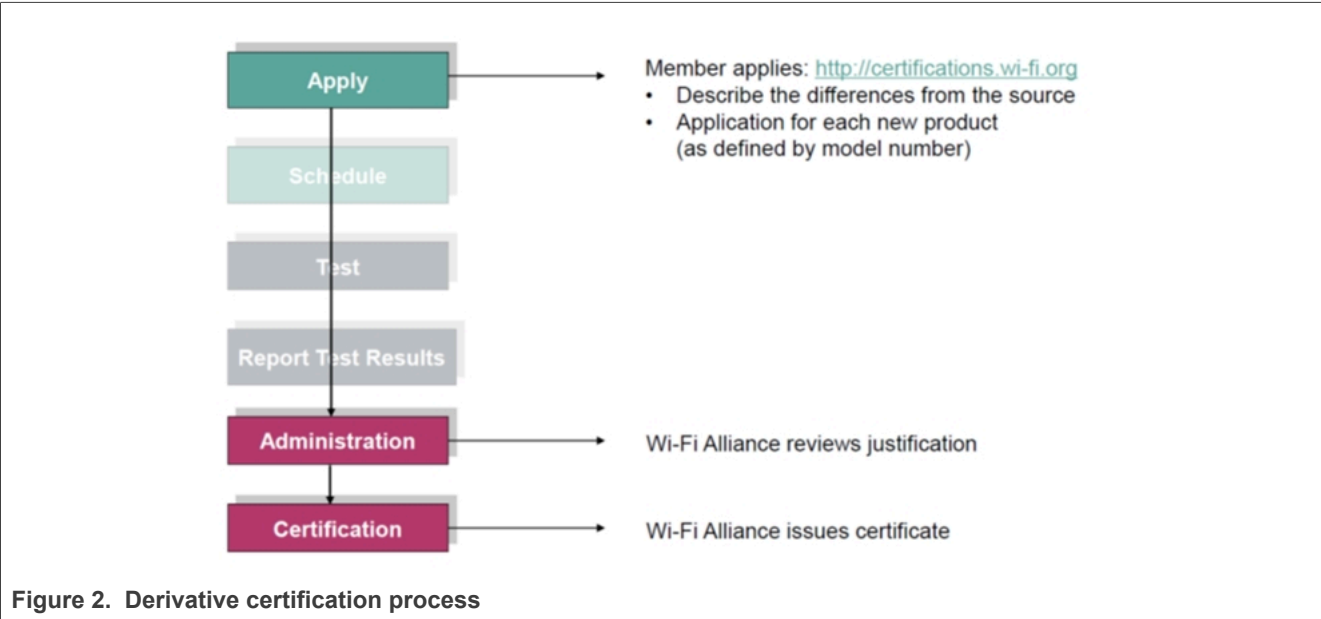


Figure 2. Derivative certification process



4 Step by step procedure

4.1 Log on and start a new application

Log as a member on Wi-Fi Alliance website ([ref.\[11\]](#)). The site opens on the **Applications** page. Click the **New Application** tab.

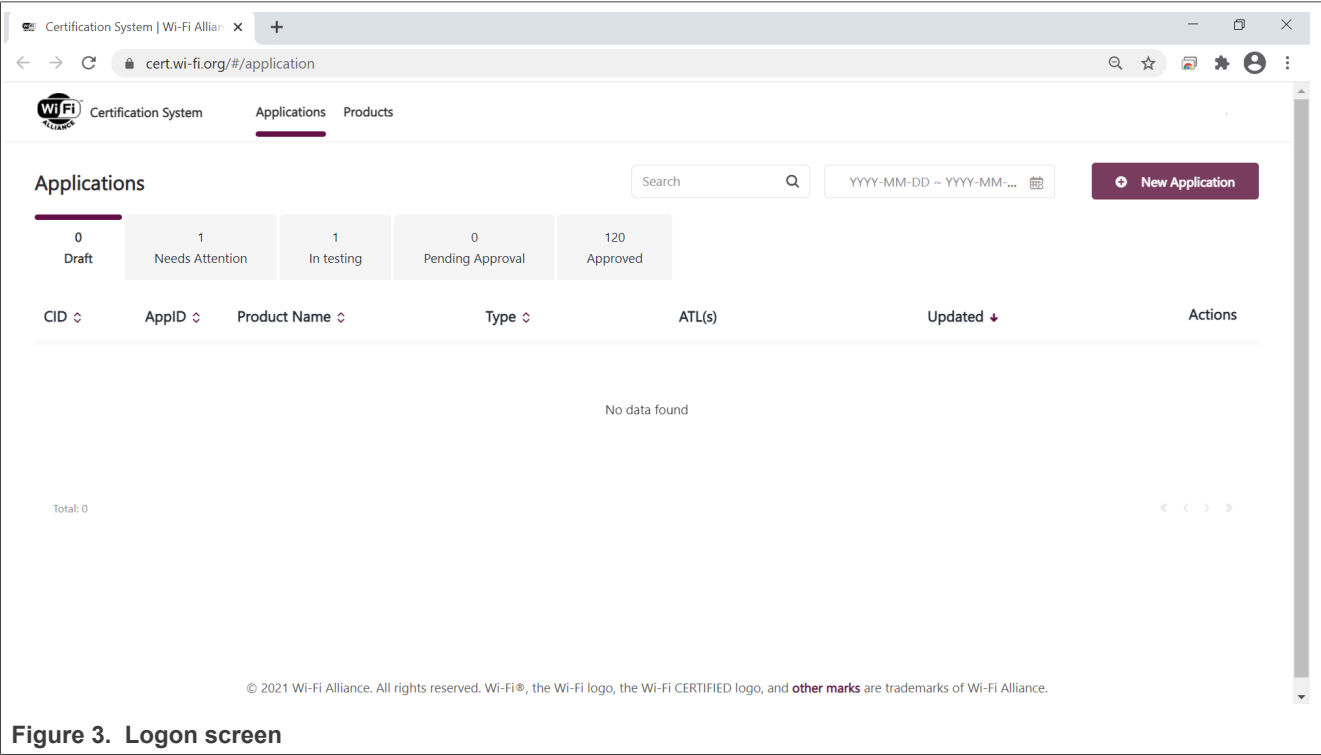


Figure 3. Logon screen

On the New Application page, go to **Please select the certification type**. Select the third item on the list: **A derivative of Existing Product**.

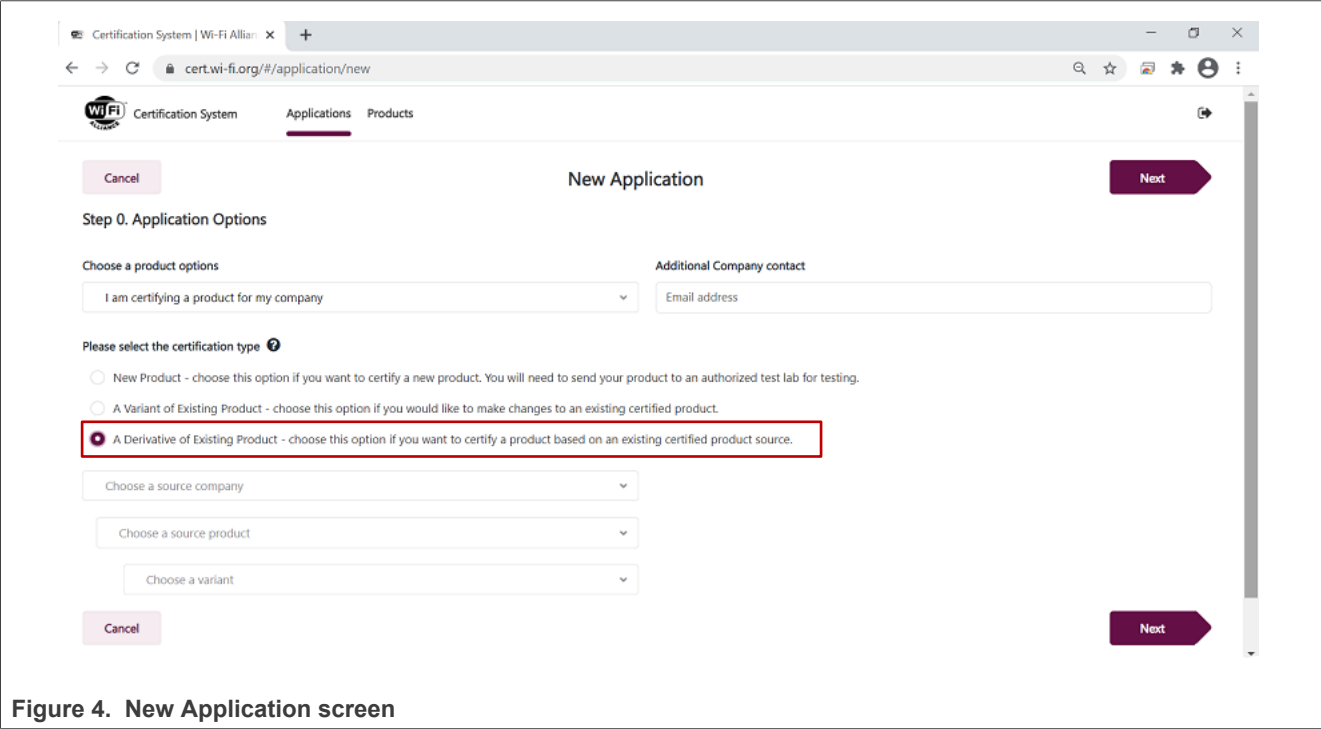


Figure 4. New Application screen

- Click the icon on the right of the first field to open the list and select **NXP Semiconductors** as the source company.
- Click the icon on the right of the second field and select the CID for your product and operating system.  
[Figure 5](#) shows the CID for 88W8987-based wireless module and Linux OS.

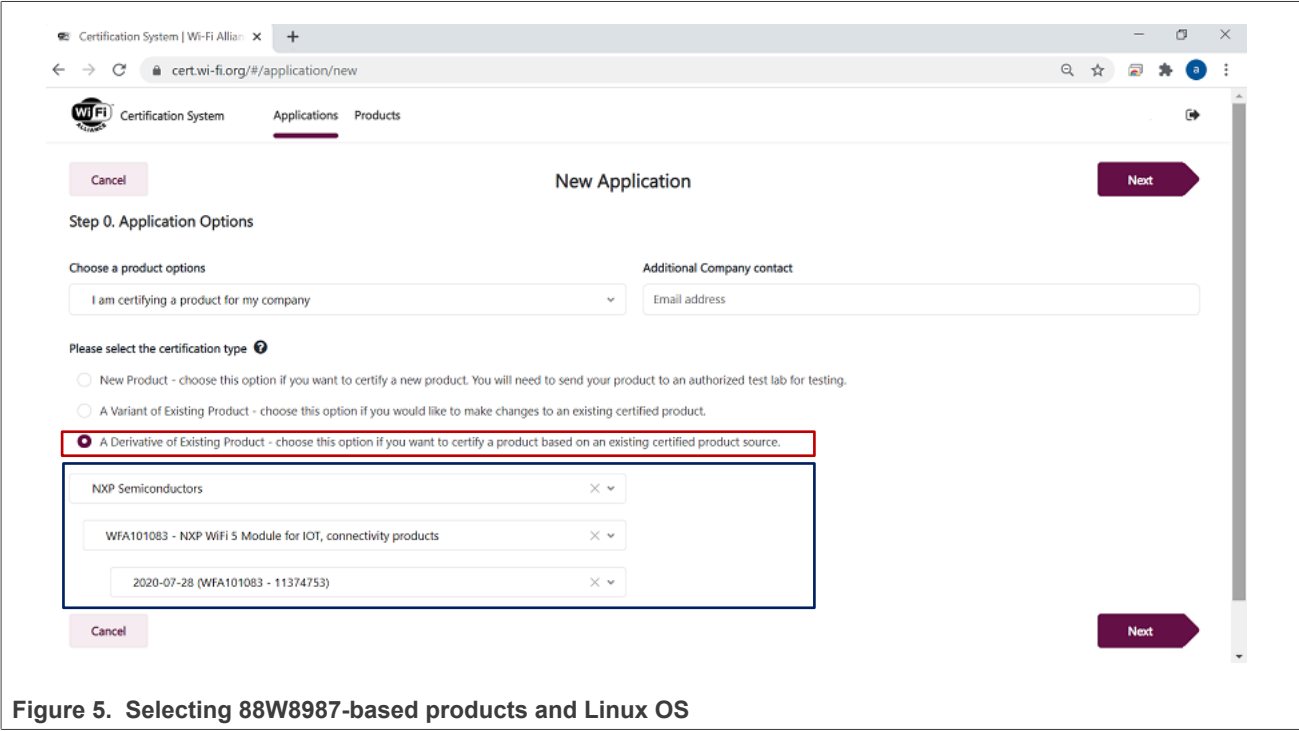


Figure 6 shows the CID for 88W8987-based wireless module and Android OS.

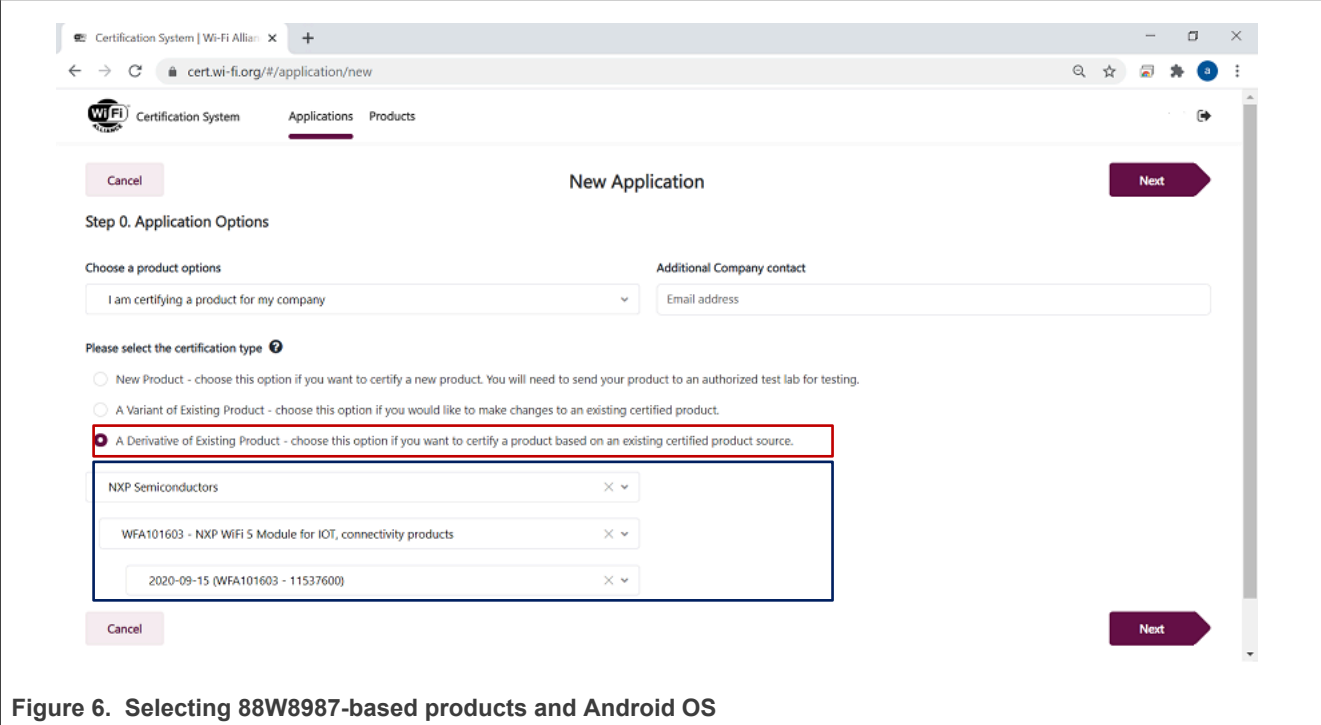


Figure 6. Selecting 88W8987-based products and Android OS

- Click **Next**.

4.2 Capture the product information

The next **New Application** page is for **Step 1. Product Information**.

**Caution:** Make sure to capture the exact information about your product as the Wi-Fi components cannot be modified once you have submitted the application.

- Capture the **Product Name** and **Variant Name**.
- Capture the **Model Number** and **Product URL**.
- Click the icon to view the list of **Primary Category of Product** and select the category for your product.

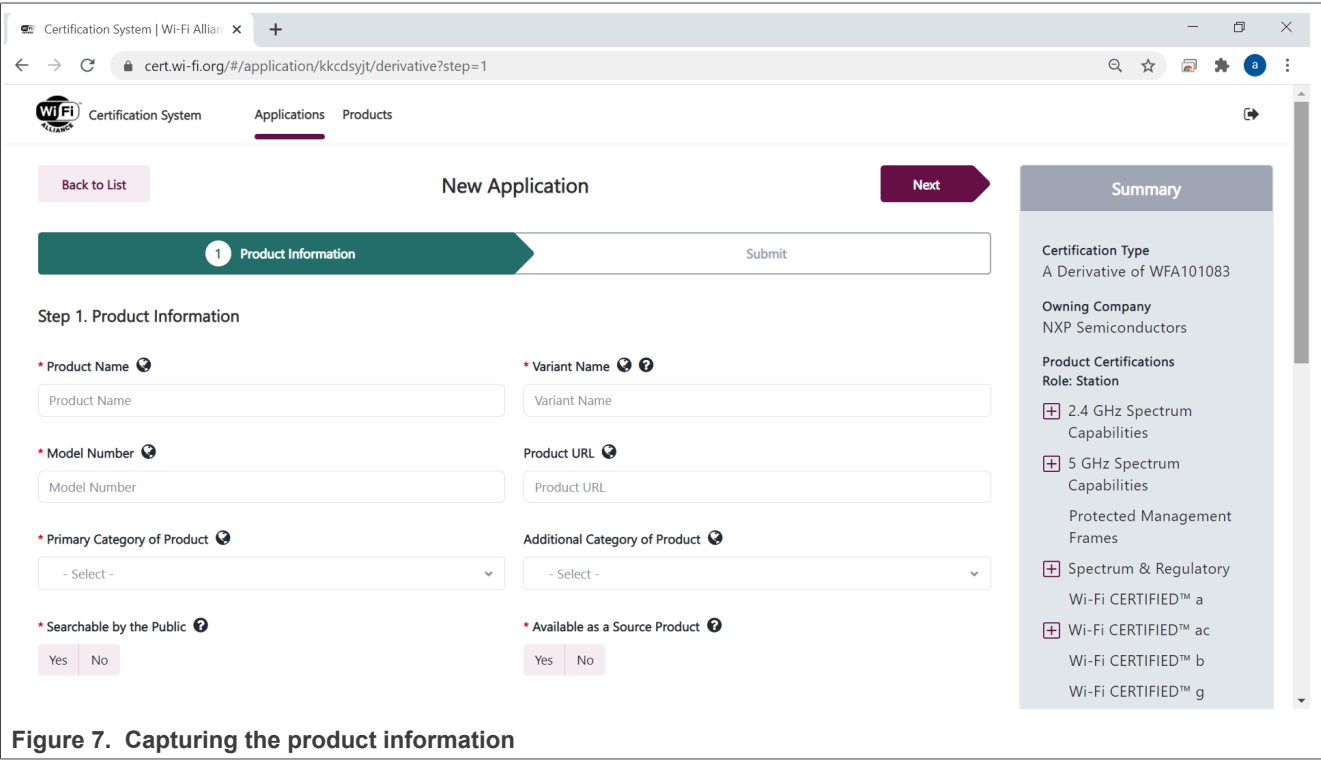


Figure 7. Capturing the product information

- Verify the Wi-Fi component details.  
[Figure 8](#) shows the Wi-Fi component details for a product based on 88W8987-based product and Linux OS.

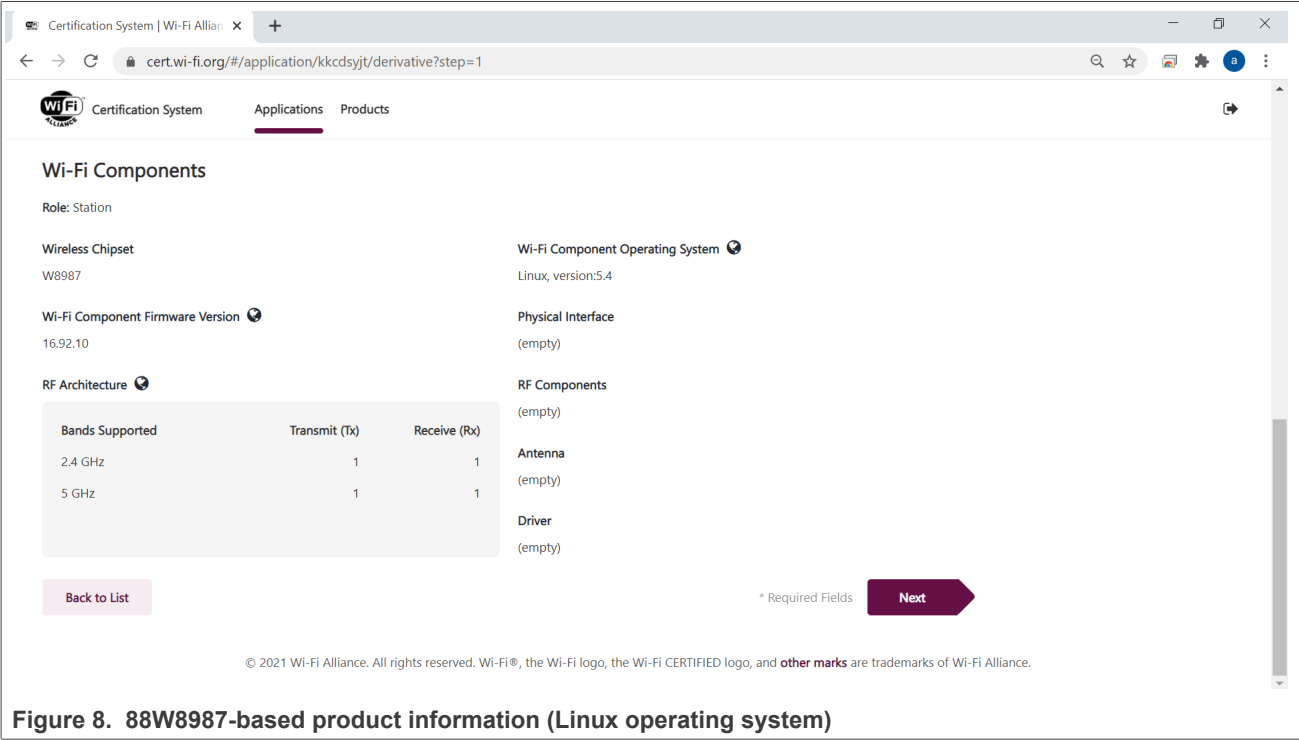
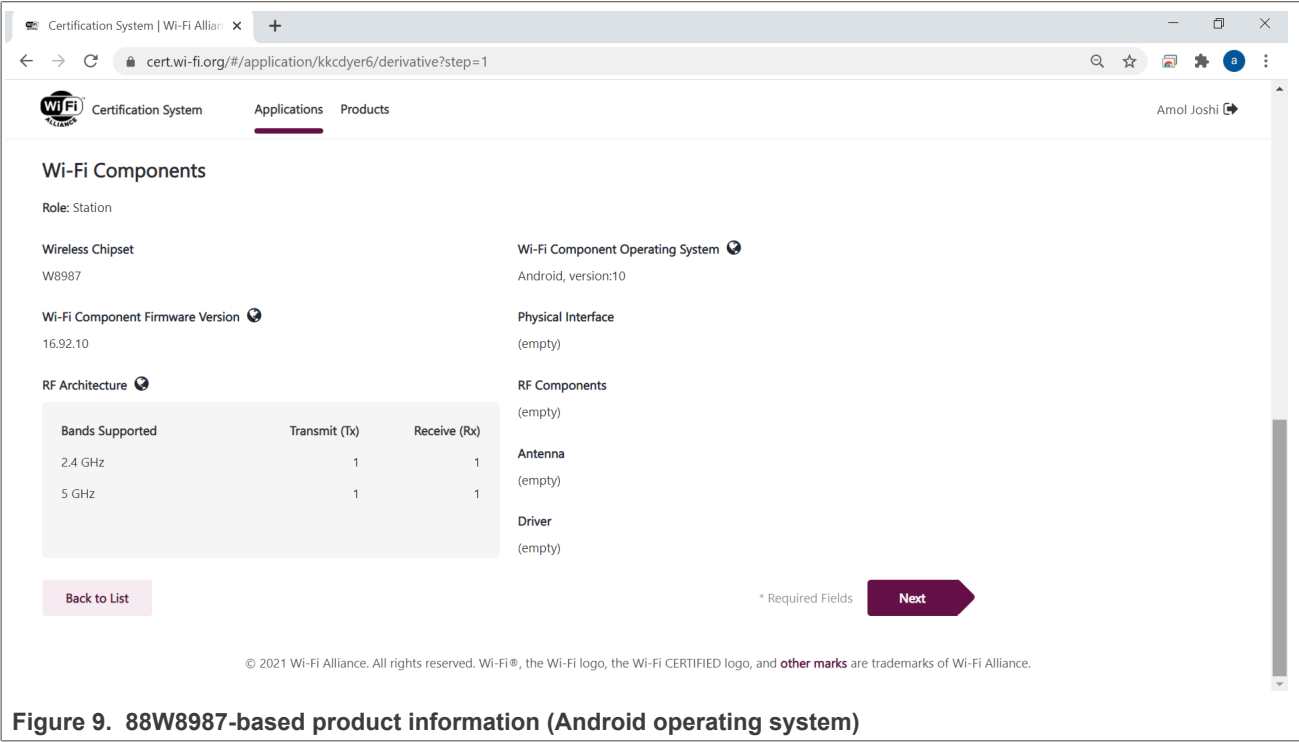


Figure 8. 88W8987-based product information (Linux operating system)

- [Figure 9](#) shows the Wi-Fi component details for a product based on 88W8987-based product and Android OS.



- Click **Next Step**.

4.3 Submit the application

The last **New Application** page is for **Step 2. Submit**.

- Capture optional information such as the PO number and/or CTIA number.
- Go to the **Wi-Fi Alliance Terms and Agreements** section on the page.
- Check the two boxes to confirm you acknowledge *Wi-Fi Alliance Certification Terms and Conditions* and that you agree to the *Wi-Fi Alliance Certification Mark License Agreement*.
- Click **Submit**.

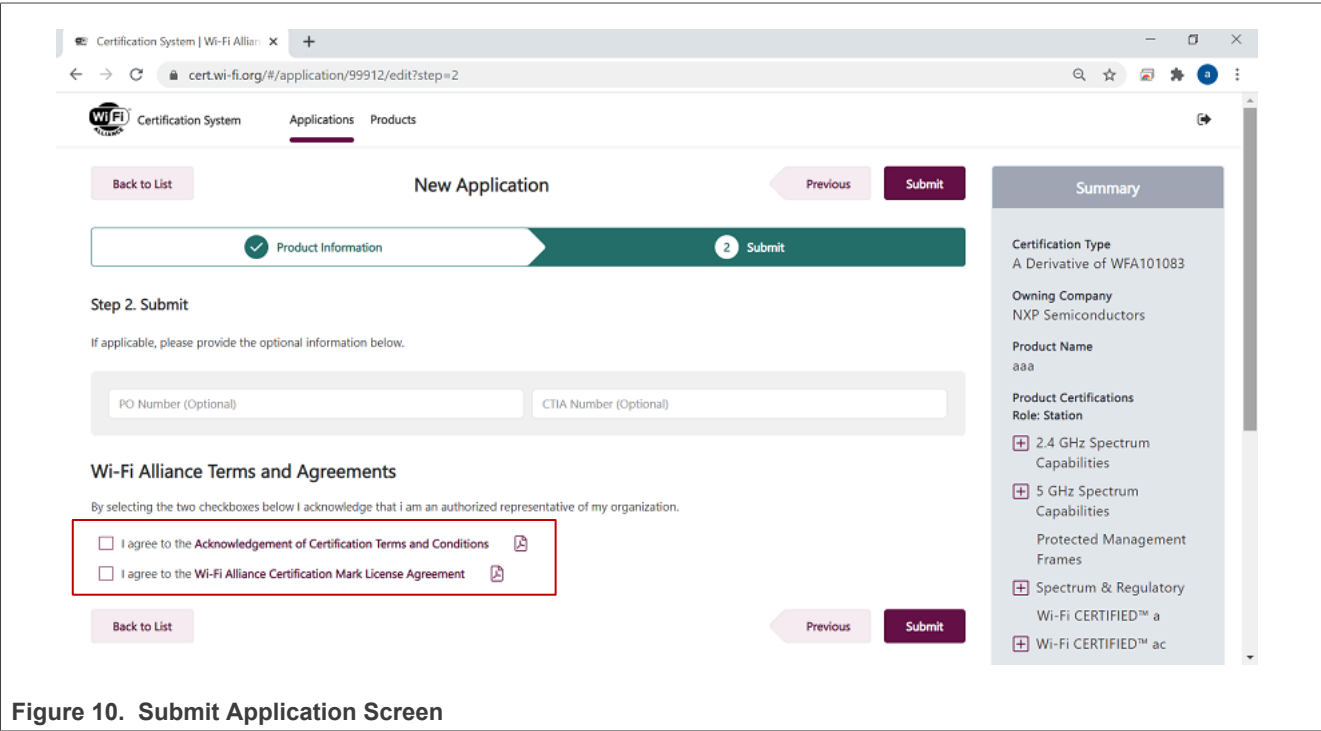


Figure 10. Submit Application Screen



## 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.

## 6 Abbreviations

Table 1. Abbreviations

Abbreviation	Definition
ATL	Authorized test laboratory
CID	Certification identification number
STL	Solution test laboratory

## 7 References

- [1] Webpage – 88W8801: 2.4 GHz single-band 1x1 Wi-Fi® 4 (802.11n) Solution ([link](#))
- [2] Webpage – 88W8987: 2.4/5 GHz dual-band 1x1 Wi-Fi® 5 (802.11ac) + Bluetooth® Solution ([link](#))
- [3] Webpage – 88W8997: 2.4/5 GHz dual-band 2x2 Wi-Fi® 5 (802.11ac) + Bluetooth® Solution ([link](#))
- [4] Webpage – 88W9098: 2.4/5 GHz dual-band 2x2 Wi-Fi® 6 (802.11ax) + Bluetooth® ([link](#))
- [5] Webpage – IW416: 2.4/5 GHz dual-band 1x1 Wi-Fi® 4 (802.11n) + Bluetooth® Solution ([link](#))
- [6] Webpage – IW610: 2.4/5GHz dual-band 1x1 Wi-Fi® 6 + Bluetooth Low Energy + 802.15.4 Tri-Radio Solution ([link](#))
- [7] Webpage – AW611: 2.4/5 GHz dual-band 1x1 Wi-Fi® 6 (802.11ax) + Bluetooth® Automotive Solution ([link](#))
- [8] Webpage – IW611: 2.4/5 GHz dual-band 1x1 Wi-Fi® 6 (802.11ax) + Bluetooth® Solution ([link](#))
- [9] Webpage – IW612: 2.4/5 GHz dual-band 1x1 Wi-Fi® 6 (802.11ax) + Bluetooth® + 802.15.4 Tri-radio Solution ([link](#))
- [10] Webpage – AW693: 2x2 dual-band (5-7 GHz), 1x1 (2.4 GHz) Concurrent Dual Wi-Fi 6/6E, and Bluetooth Combo Solution ([link](#))
- [11] Webpage – Wi-Fi Alliance®: The gold standard in Wi-Fi® ([link](#))

## 8 Revision history

### Revision history

Document ID	Date	Description
AN12976 v.7.0	23 September 2025	<ul style="list-style-type: none"> <li><a href="#">Section 1 "About this document"</a>: updated.</li> <li><a href="#">Section 1.1 "Supported products"</a>: added.</li> <li><a href="#">Section 2 "Wi-Fi certification program"</a>: updated the introduction.</li> <li><a href="#">Section 2.1.1 "88W8801 (LBWA0ZZ2DS)"</a>: added.</li> <li><a href="#">Section 2.1.2 "88W8987 (LBEE5QD1ZM)"</a>: added.</li> <li><a href="#">Section 2.1.3 "88W8997 (LBEE5XV1YM)"</a>: added.</li> <li><a href="#">Section 2.1.4 "88W9098 (LBEE5ZZ1XL)"</a>: added STA   WPA2.</li> <li><a href="#">Section 2.1.5 "IW416 (LBEE5CJ1XK)"</a>: added.</li> <li><a href="#">Section 2.1.6 "IW612 (LBES5PL2EL)"</a>: added STA   WPA2.</li> <li><a href="#">Section 2.1.7 "IW610 (LBES0ZZ2LL)"</a>: added.</li> <li><a href="#">Section 2.1.8 "AW693 (JODY-W6)"</a>: added.</li> <li><a href="#">Section 2.2 "Roles and responsibilities"</a>: updated.</li> <li><a href="#">Section 2.3 "Certification process"</a>: updated the note.</li> <li><a href="#">Section 3 "Derivative certification"</a>: updated the introduction.</li> <li><a href="#">Section 7 "References"</a>: updated.</li> </ul>
AN12976 v.6.0	13 December 2023	Updates in <a href="#">Section 2.1 "Certificate qualification"</a> : <ul style="list-style-type: none"> <li>Removed the section <i>88W8801 (LBWA0ZZ2DS)</i></li> <li>Removed the section <i>88W8987 (AW-CM358MA)</i></li> <li><a href="#">Section 2.1.4 "88W9098 (LBEE5ZZ1XL)"</a>: added.</li> <li><a href="#">Section 2.1.6 "IW612 (LBES5PL2EL)"</a>: added.</li> </ul>
AN12976 v.5.0	29 September 2022	<ul style="list-style-type: none"> <li>Added the section <i>88W8801 (LBWA0ZZ2DS)</i></li> </ul>
AN12976 v.4.0	14 December 2021	<ul style="list-style-type: none"> <li>Section <i>88W8987 (AW-CM358MA)</i>: updated</li> <li><a href="#">Section 4.1 "Log on and start a new application"</a>: updated the figures</li> <li><a href="#">Figure 10 "Submit Application Screen"</a>: updated</li> </ul>
AN12976 v.3.0	29 January 2021	<ul style="list-style-type: none"> <li><a href="#">Section 1 "About this document"</a>: updated</li> <li><a href="#">Section 4 "Step by step procedure"</a>: updated per the latest certification system from Wi-Fi Alliance</li> </ul>
AN12976 v.2.0	6 November 2020	<ul style="list-style-type: none"> <li><a href="#">Section 4.1 "Log on and start a new application"</a>: added the screen capture showing the CID option for 88W8987-based products and Android operating system</li> <li><a href="#">Section 4.2 "Capture the product information"</a>: added the screen capture showing 88W8987 product information with Android operating system</li> </ul>
AN12976 v.1.0	30 September 2020	Initial version

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