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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 [2], and how to get derivative certification for your products.

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
- STA | PMF
- STA | 802.11ac
- STA | FFD
- STA | SVD
- STA | WPA3 SAE (R3)
- STA | 802.11ax STA | MBO

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

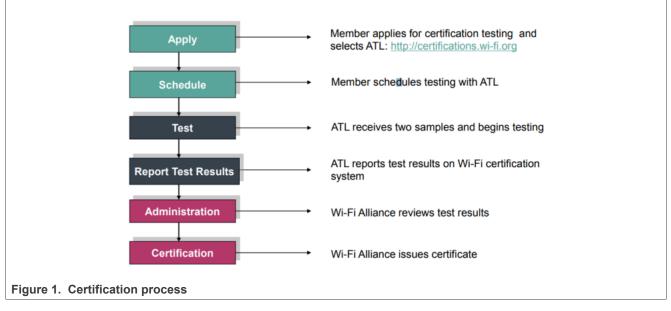
Authorized Test Labs (ATL)

- 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.

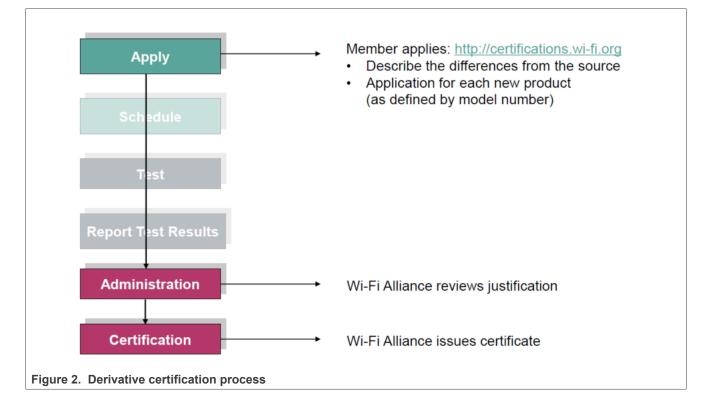
The new product must operate in the same manner as the Wi-Fi CERTIFIED source product.

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.

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Certi	fication System Applications Products	1			•
Applicatio	ons		Search Q	YYYY-MM-DD ~ YYYY-MM	New Application
0 Draft	1 1 Needs Attention In testing		120 proved		
CID 0	AppID O Product Name O	Type O	ATL(s)	Updated +	Actions
Total: 0					< < > >

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

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Wi-Fi Alliance Derivative Certification Process for i.MX Platforms Running FreeRTOS

Certification System Applications			۲
Cancel	New App	blication	Next
Step 0. Application Options			
Choose a product options		Additional Company contact	
I am certifying a product for my company	÷	Email address	
Please select the certification type O New Product - choose this option if you want to	o certify a new product. You will need to send your pr	oduct to an authorized test lab for testing.	
Please select the certification type New Product - choose this option if you want to A Variant of Existing Product - choose this optio A Derivative of Existing Product - choose this op	o certify a new product. You will need to send your pr in if you would like to make changes to an existing ce ption if you want to certify a product based on an exis	oduct to an authorized test lab for testing. artified product.	
Please select the certification type O New Product - choose this option if you want to A Variant of Existing Product - choose this optio	o certify a new product. You will need to send your pr in if you would like to make changes to an existing ce	oduct to an authorized test lab for testing. artified product.	

- 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.

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Certification System Applications Products						۲	ĺ
Cancel	New Appl	ication			Next		
Step 0. Application Options							
Choose a product options		Additional Company contact					
I am certifying a product for my company	~	Email address					- 1
A Variant of Existing Product - choose this option if you would like to make ch A Derivative of Existing Product - choose this option if you want to certify a pr							
NXP Semiconductors	× •						
WFA100110 - NXP WiFi 4 Module for IOT, connectivity products	× •						- 1
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2020-06-24 (WFA100110 - 11204888) Cancel	× •				Next		
					Next		

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.

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Certification System Application	ions Products	. 🗭
Back to List	New Application	Next Summary
1 Product Inf	formation Submit	Certification Type A Derivative of WFA100112
Step 1. Product Information		Owning Company NXP Semiconductors
* Product Name	* Variant Name 😧 🔞	Product Certifications Role: Station
Product Name	Variant Name	1 2.4 GHz Spectrum
* Model Number	Product URL	Capabilities
Model Number	Product URL	+ 5 GHz Spectrum Capabilities
Primary Category of Product	Additional Category of Product 🚱	Protected Management Frames
- Select -	- Select -	↓ Wi-Fi CERTIFIED [™] a
		Wi-Fi CERTIFIED™ b
	* Available as a Source Product 🔞	Wi-Fi CERTIFIED™ g
Searchable by the Public		
* Searchable by the Public 🕑 Yes No	Yes No	Wi-Fi CERTIFIED™ n

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Wi-Fi Alliance Derivative Certification Process for i.MX Platforms Running FreeRTOS

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

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Certification System Applicati	ons Products					•	*
Wi-Fi Components Role: Station							
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Back to List		* Required Fields Next					l
o 2021 w ure 7. Component details		I-FI®, the WI-FI logo, the WI-FI CERTIFIED logo, and other marks are trademarks of WI-FI Alliance.					×

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

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Wi-Fi Alliance Derivative Certification Process for i.MX Platforms Running FreeRTOS

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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Certification System Applications Products	•
Wi-Fi Alliance Terms and Agreements	Capabilities
By selecting the two checkboxes below I acknowledge that i am an authorized representative of my organization.	
I agree to the Acknowledgement of Certification Terms and Conditions	Protected Management Frames
I agree to the Wi-Fi Alliance Certification Mark License Agreement	Wi-Fi CERTIFIED™ a
Back to List Previous Submit	Wi-Fi CERTIFIED™ b
Back to List Previous Submit	Wi-Fi CERTIFIED™ g
	🛨 Wi-Fi CERTIFIED™ n
	WMM ®
	+ WPA2™-Personal
	+ WPA3™-Personal
	Member/Staff Notes There are no notes yet
	+ Add note
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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 1. Abbreviations				
Abbreviation	Definition			
ATL	Authorized test labs			
CID	Certification identification number			

7 References

- [1] Specification Wi-Fi CERTIFIED Derivative Certifications Overview v3.2.0
- [2] Specification Wi-Fi Alliance Derivative Certifications Policy v4.2
- [3] Website Wi-Fi Alliance (link)

8 Revision history

Revision history		
Document ID	Date	Description
TN00066 v.11.0	24 March 2025	<u>Section 2.2 "Certificate qualification"</u> : updated.
TN00066 v.10.0	24 September 2024	• <u>Section 2.2 "Certificate qualification"</u> : removed the note about AW611 module support.
TN00066 v.9.0	26 June 2024	 <u>Section 2.2 "Certificate qualification"</u>: added IW611 and AW611. <u>Section 7 "References"</u>: updated.
TN00066 v.8.0	9 January 2024	<u>Section 2.2 "Certificate qualification"</u> : removed the footnote about IW612 module support.
TN00066 v.7.0	13 October 2023	<u>Section 2.2 "Certificate qualification"</u> : added STA 802.11ax.
TN00066 v.6.0	29 June 2023	• <u>Section 2.2 "Certificate qualification"</u> : added IW612, STA FFD, STA SVD, and STA WPA3 SAE (R3)
TN00066 v.5.0	15 September 2022	 <u>Section 2.2 "Certificate qualification"</u>: Removed the reference to 88W8977 module Added module references for IW416 and 88W8987 Added two test plans <u>Section 4.1 "Sign in on Wi-Fi Alliance website and start a new application"</u>: removed the figure about 88W8977 <u>Section 4.2 "Fill in the product information"</u>: removed the figure showing component details for 88W8977-based products
TN00066 v.4.0	10 January 2022	Ported the content to NXP format. No changes in the content.
TN00066 v.3.0	3 September 2021	Certificate Qualification: added EAR00386 M.2 + LBEE0ZZ1WE-uSD-M2 the list of certified modules
TN00066 v.2.0	13 January 2021	Step by Step Procedure: updated the section as per new certification system from Wi-Fi Alliance
TN00066 v.1.0	30 September 2020	Initial version

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