
Verizon Open Development (OD) Portal User Guide.

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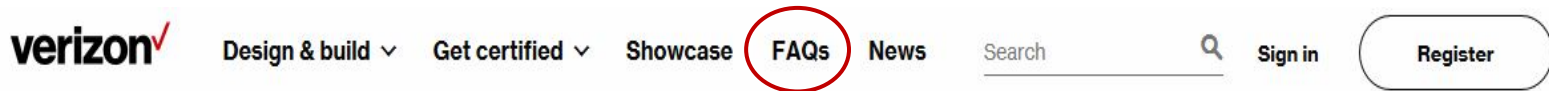
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Introduction

This document is intended to assist our device Original Equipment Manufacturers (OEMs) and developers in navigating and using the Verizon Open Development web portal.

This document uses embedded web links identified like this. Click on the link to open a browser window to the selected web link.

Additional information can be found by checking the Open Development (OD) Frequently Asked Questions (FAQs).



Open Development Device Certification Documentation

For additional device requirements and submission documents, you will need an Open Development account to log in to the Open Development portal.

Glossary and Definition of Terms

CA	Certification Agreement	NDET	Network Device Evaluation Team
Col	Certificate of Insurance	OD	Open Development
DLD	Device Lock Down	ODPT	Open Development Product Team
DMD	Device Management Database	OEM	Original Equipment Manufacturer
FCC	Federal Communications Commission	OTA	Over-The-Air
EDI	Electronic Data Interchange	SFN	Safe For Network
M2M	Machine to Machine	TECC	Test Entrance Criteria Checklist
NDA	Non-Disclosure Agreement		

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Document Revision History

Rev.	Description of Changes	Date
1.0	Initial Version	June, 2017
1.1	Modifications for new portal UI.	July 2017
1.2	Updated Col section, device image requirements, OD Showcase updates, Open Development portal links.	August 2017

1. The Verizon Open Development Portal

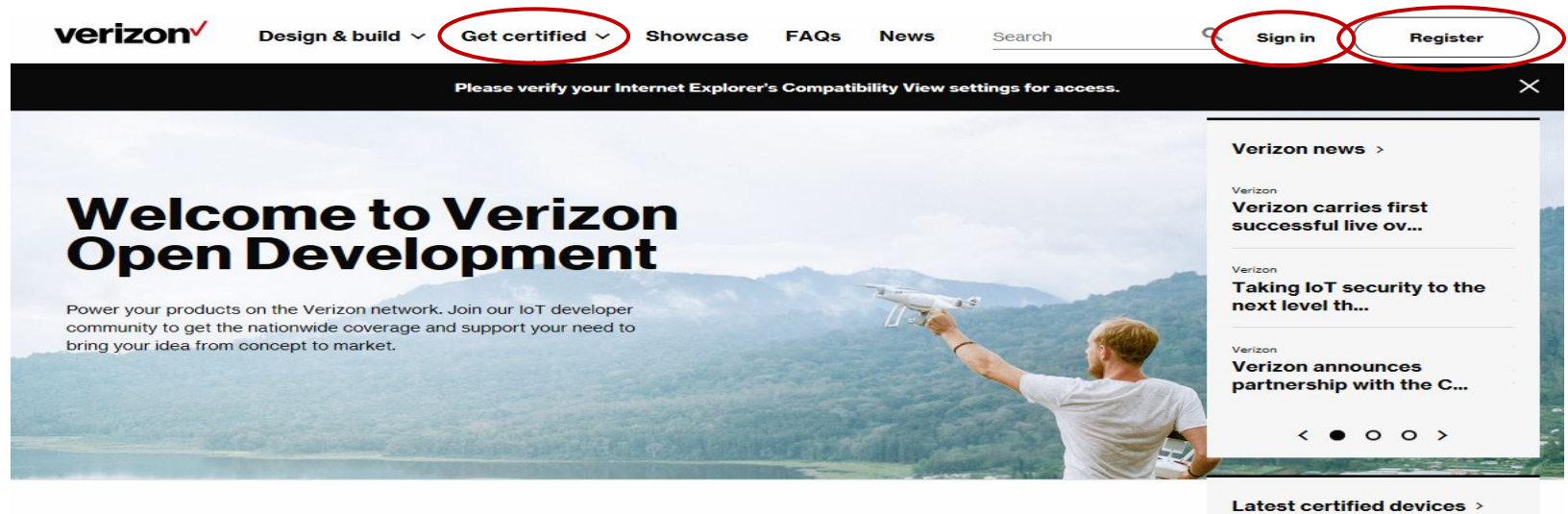
The Open Development portal is found at <https://opendevdevelopment.verizonwireless.com>

To find out more information on the certification process, select the “Get Certified” link.

To create an Open Development account, select the “Register” link.

Returning users can log in to an existing account by selecting the “Sign in” link and using their Open Development portal credentials.

The Showcase displays certified devices and modules for review and comparison. Technical and support information is provided for those seeking additional information.



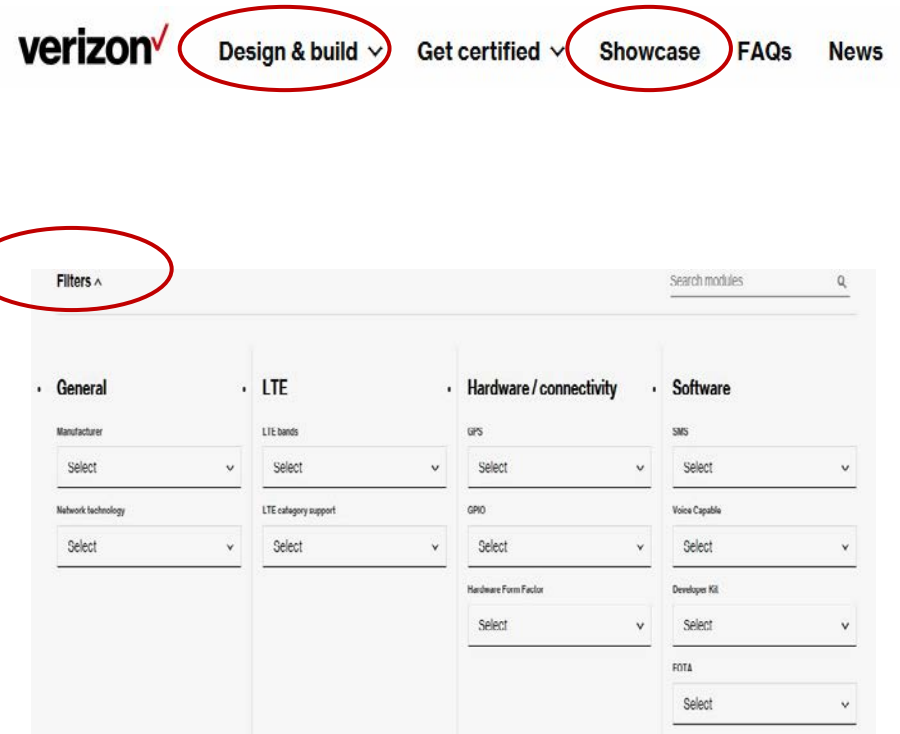
2. Approved modules and certified devices

Developers are able to find approved modules by highlighting the “Design & build” section, and selecting “Approved modules”.

The use of an approved module in a device will reduce certification timelines.

A developer can filter on Module Manufacturer, Network Technology, LTE Band, LTE Category support, Hardware/Connectivity, or Software options to find modules which meet your device design requirements.

Users can review certified devices by selecting the “Showcase” link.



3. “Get Certified” page

Visitors to the “Get Certified” page can find information on the Verizon Open Development certification process.

Certify your devices with Verizon in 4 phases: register, submit, certify and prepping for market.

Learn more about the Open Development Device Certification Process by downloading a certification process overview document.

By selecting “Get Started”, the user is taken to a registration page.

Only one company registration is required. Additional users with individual login credentials can be requested through the “Manage Account” page.

Certification Process

Certify your devices with Verizon in 4 phases: register, submit, certify and prep for market. Learn more about the [Open Development Device Certification Process here](#).

[Get Started >](#)

Why certify with Verizon?

Self-serve registration	Faster certifications	Personalized test plans
Pre-populate NDAs, registration paperwork, partnership agreements and more with your current information using the OD Portal.	Your product certification is more efficient with real-time portal updates and easy web uploads.	The portal's device submission process reduces time-to-market using streamlined forms and gives status updates on your tests.

Process breakdown

Step 1 [Register company](#) Step 2 [Submit device](#) Step 3 [Certify device](#) Step 4 [Getting ready for market](#)

[Get started >](#)

Register company

Getting started

Register your company, get your account login information and then sign a Non-Disclosure Agreement (NDA). You will receive your login credentials once you register your company. Before accessing the Open Development portal, you will need to have completed several forms.

Documents required:

Please make sure you have completed the following items:

- ✓ Submit your company registration
- ✓ Sign a Non-Disclosure Agreement (NDA)
- ✓ Sign a Certification Agreement (CA)
- ✓ Provide your Certificate of Insurance (COI)

[Next step >](#)

3.1 Registration landing page

Returning Users should login under Account Information using their Open Development portal credentials.

New users can create an Open Development account by selecting the “register with us” link (circled below).

verizon [✓] [Devices & Modules](#) [Get Certified](#) [FAQ](#)

Sign In

Please enter your user name and password.

Account Information

Username

Password

[Sign In >](#) [Forgot Password?](#)

Is your company not registered with us yet?
Please [register with us](#) to get your company's OD Device Certification account set up.

This will take you to our registration form where you can supply the information necessary to setup a new company profile and access the Verizon Open Development website.

3.2 Company Registration

Enter your Company Information.

Submit your company and contact information to gain access to the Verizon Open Development website.

All fields highlighted with * are required.

Only one company registration is required. Additional users with individual login credentials can be requested through the “Manage Account” page.

- After entering all company information, select the option to “Submit”.

The screenshot shows the Verizon Open Development website registration page. At the top, the Verizon logo is on the left, and navigation links for "Devices & Modules", "Get Certified", and "FAQ" are on the right. Below the logo, the heading "Register With Us" is displayed. A sub-heading reads "Please submit your company and contact information to gain access to the Verizon Open Development website." A "Required" label is shown in a box. The form contains several fields, with asterisks indicating required fields: "Complete legal name of Company d/b/a (if doing business as another entity, please identify)", "Company Entity Type" (a dropdown menu currently showing "Corporation"), "Company website/homepage URL", "Street address", "City", "State/Province", "Country", "Zip Code", "Primary Contact First Name", "Primary Contact Last Name", "Primary Contact Email", "Primary Contact Email Confirmation", and "Primary Contact Phone Number". A "Have you been working with any VZW contact(s)? If so, please provide the name(s) of these contact(s)" field is also present. At the bottom right, there are "Cancel" and "Submit" buttons, with the "Submit" button circled in red. At the bottom left, there are links for "About Us", "Privacy Policy", "Website Use", "Legal Notices", and "Contact Us".

3.3 After New Company and User Submission

A confirmation email will be sent to the submitter's email account.

The user needs to validate the submitted email address by following a web link in the confirmation email.

verizon ✓ Devices & Modules Get Certified FAQ

Sign In

Please enter your user name and password.

Account Information

Username

Password

Sign In > [Forgot password?](#)

Is your company not registered with us yet?

Please [register with us](#) to get your company's OD Device Certification account set up.

This will take you to our registration form where you can supply the information necessary to setup a new company profile and access the Verizon Open Development website

Thank you for registering with us! A confirmation email has been sent to your inbox.

3.4 Email Address Confirmation

The user will receive an email requesting confirmation to validate the submitted email address.

From: OpenDevelopment@verizonwireless.com
Date: Subject: **New Company Registration** – Your Company Name Here
To: Registered Email Address

A request to register with the Verizon Open Development Initiative has been submitted using this email address. Please confirm that you submitted this request by following the provided link:

<https://SecureLinkProvidedHere>

Details You Provided:

Company Name – Your Company Name Here

Primary Contact – Your Email Address submitted during Registration Here

After confirmation, your registration will not be completed until Verizon Open Development team validates the information you have provided. If you have any questions, please contact verizonwireless-opendevlopment@verizonwireless.com.

After opening the secure link in a web browser, the user is taken to a webpage showing successful email address confirmation.



Devices & Modules

Get Certified

FAQ

Confirmation Approval

Your submission has been successfully verified. Thank you for registering your company with Verizon. Your profile will now be reviewed by Verizon and an account created once the information you have provided has been verified. You will then receive an email with your account login details.



3.5 After Review by the Open Development team

The user will receive an email at their confirmed email address.

The user will need to open the email attachment in a browser to view the secure message.

From:
Date:
Subject: VZW ODI Device Certification: Registration Complete
To:
Cc:

You have received a secure message from Verizon

If you have concerns about the validity of this message, contact the original sender directly.

To retrieve your encrypted message, follow these steps:

1. Click the securedoc.html attachment and save it locally to your PC, locate the saved file and double click it so it opens in your browser.

If you are a first time user, you will be asked to register an account. Please complete all fields on the registration screen and you will receive an email back to confirm your account, return to the open envelope when done.

2. Enter your password and click the OPEN button.

NOTE: All encrypted messages have a 45 day expiration from the original send date. If you need the data for future reference please save the attachments to your local machine before the secure envelope expires.

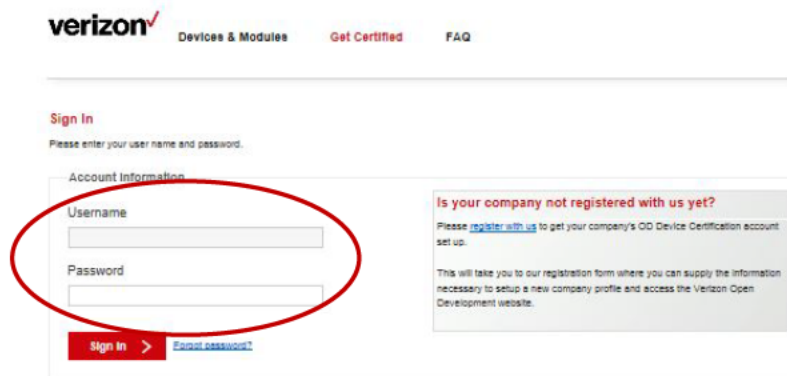
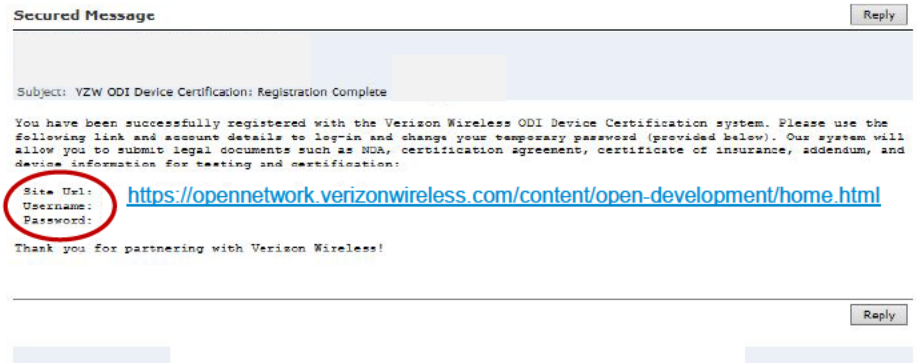
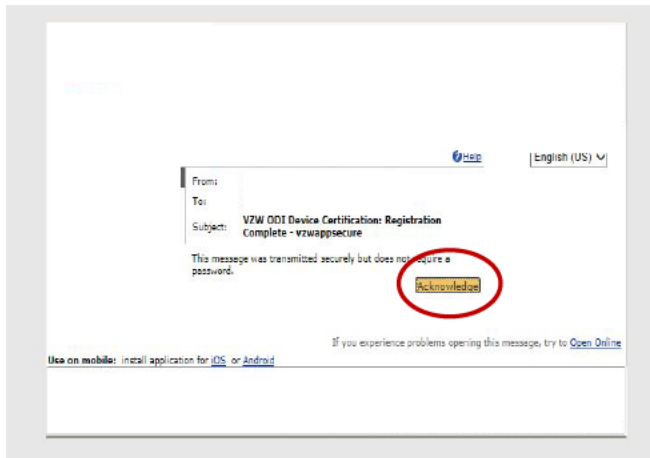
Mobile Device users that have already registered can view the content by forwarding the Registered Envelope to . If you have not registered, you will not be able to do so using a mobile device.

Need technical support or have a general question? See <https://>

If you still need assistance feel free to contact us at

3.6 Secure Attachment for Account ID and temporary password

The user must acknowledge receipt of the secure attachment by selecting the “Acknowledge” button, and then will be shown their Username and temporary password for the Open Development website.

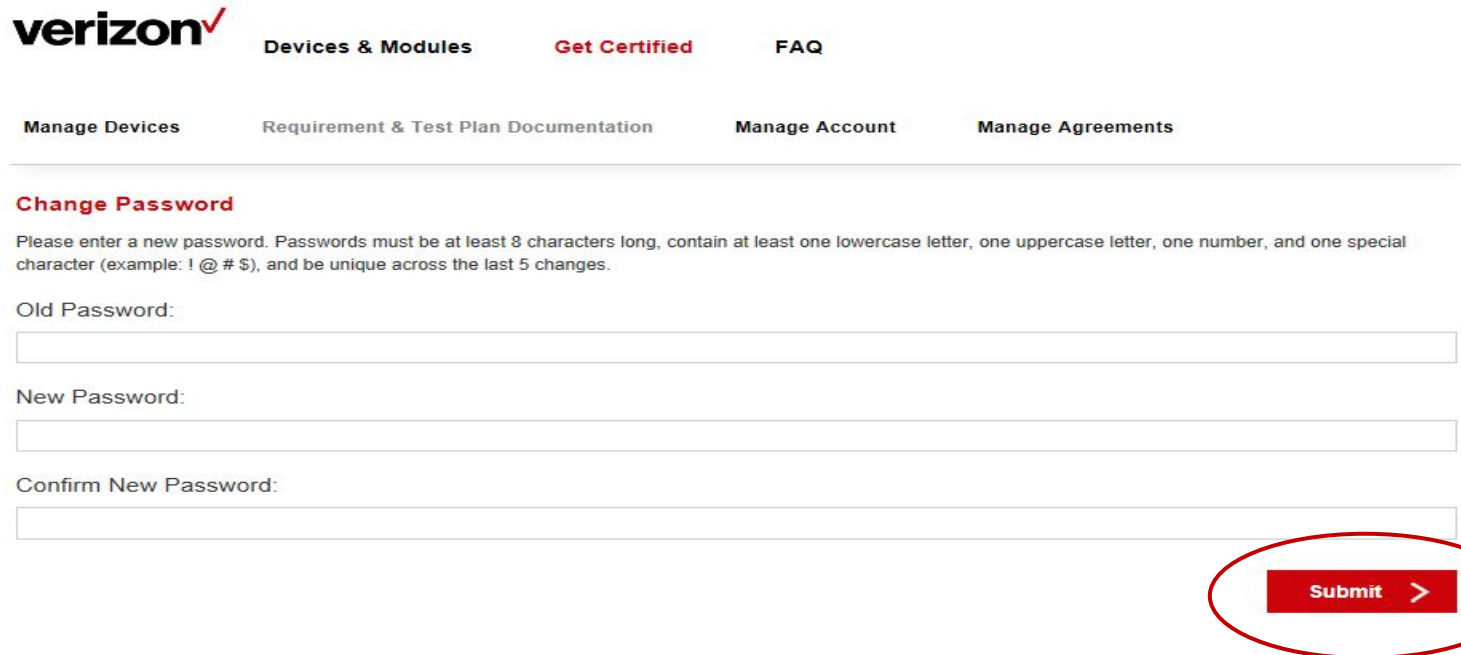


3.7 Setting your password

The user will be required to set a new password after their initial login using their temporary password.

Select the submit button after entering and confirming the new password.

Note: The new password must contain at least one lowercase letter, one uppercase letter, one number, and one special character.



verizon ✓

Devices & Modules **Get Certified** FAQ

Manage Devices Requirement & Test Plan Documentation Manage Account Manage Agreements

Change Password

Please enter a new password. Passwords must be at least 8 characters long, contain at least one lowercase letter, one uppercase letter, one number, and one special character (example: ! @ # \$), and be unique across the last 5 changes.

Old Password:

New Password:

Confirm New Password:

Submit >

4. After Account Creation

User must execute a Non-Disclosure Agreement (NDA) to access Open Development device requirements and test plans, or create and/or submit new devices for certification.

To begin the NDA process, select OK to acknowledge Notice, and then select the Non-Disclosure Agreement tab. See the NDA section for more details.

The screenshot shows the Verizon portal interface. At the top, there is a navigation bar with the Verizon logo and tabs for 'Devices & Modules', 'Get Certified', and 'FAQ'. Below this, there are sub-tabs for 'Manage Devices', 'Documentation', 'Manage Account', and 'Manage Agreements'. The 'Manage Agreements' tab is active. A 'Notice' dialog box is open, displaying the text: 'You must execute your Non-Disclosure Agreement to access requirement and test plan documentation or submit new devices'. An 'Ok' button is circled in red. Below the notice, there is a section titled 'Agreements for Example Example' with a progress bar showing 'Company Registration' (green), 'Non Disclosure Agreement (NDA)' (circled in red), 'Certification Agreement (CA)', and 'Certificate of Insurance (COI)'. Below this is a table with the following data:

Doc#	Agreement	Status	VZ Contact	Submission Date	Approval Date	Expiration Date
0D-NDA-VZW16000800-2017	Non Disclosure Agreement	Now		N/A	N/A	N/A

5. “Manage Agreements”

Use this section to manage your Open Development agreements with Verizon. Completed agreements will be green. Agreements in progress will be yellow.

Manage Devices

Requirement & Test Plan Documentation

Manage Account

Manage Agreements

Agreements for Verizon Wireless

Your agreement status and list of documents are presented below. The bar indicates the status of the agreements you must complete with green indicating completed agreements. You may either click on the agreement name in the status bar or in the list below to view their details and proceed with the process. Please [contact us](#) with any questions you may have about this process.

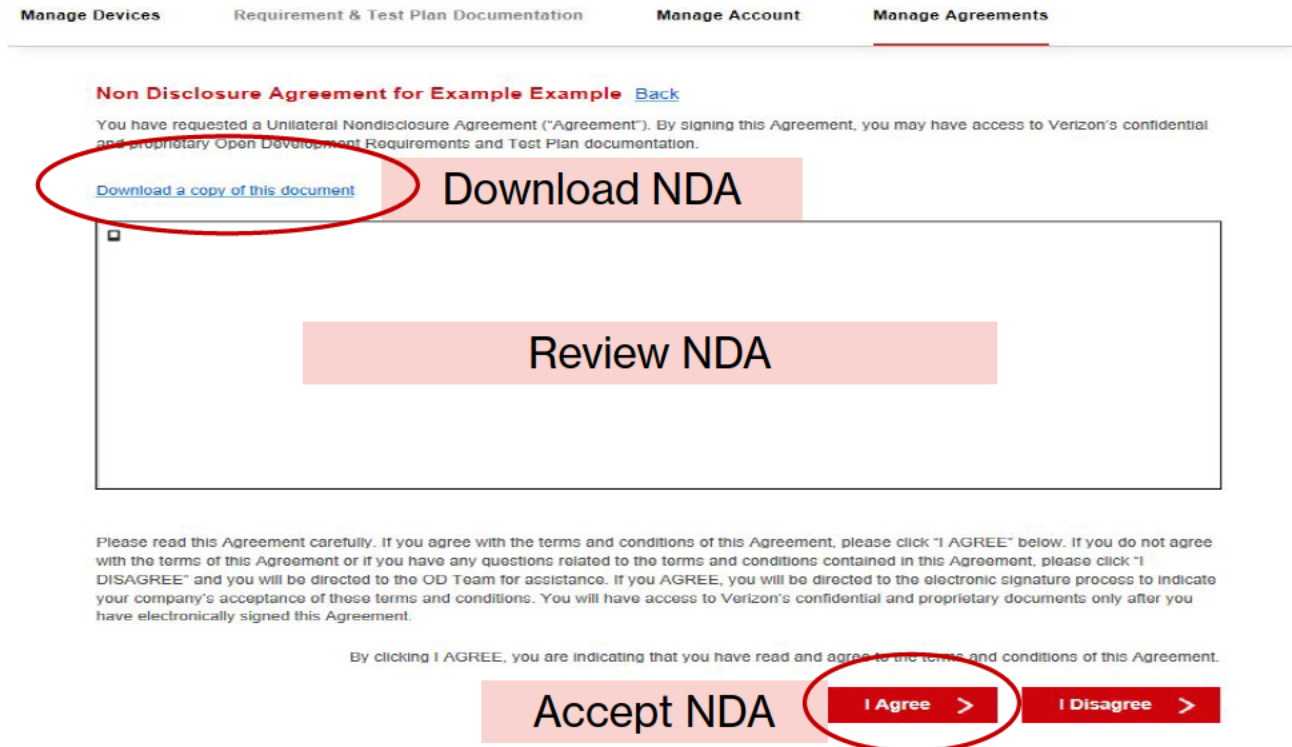
Company Registration	Non-Disclosure Agreement (NDA)	Certification Agreement (CA)	Certificate of Insurance (COI)
----------------------	--------------------------------	------------------------------	--------------------------------

5.1 Non Disclosure Agreement

After selection of the Non Disclosure Agreement tab.

User can Download, Review, and/or Accept the Terms & Conditions for Verizon Open Development NDA.

If the user selects “I Disagree”, a manual NDA process is started, and the Open Development team will be notified and follow up with the user.



Agree with Verizon NDA

If user selects the “I Accept” button, they will receive an email requesting digital signature through Adobe EchoSign. User should follow link to provide E-Signature.

If the user selects “I Disagree”, a manual NDA process will be started, and the Verizon Sourcing team will be notified.



OEM will receive an email to request the digital signature through Adobe EchoSign.



E-Signature In Adobe EchoSign

5.2 Certification Agreement

After completion of the Non Disclosure Agreement, the OEM can start the Certification Agreement.

User can Download, Review, and/or Agree with the Terms & Conditions for Verizon Open Development Certification Agreement (CA).

Selecting the “I Agree” button enables the OEM to upload a Certificate of Insurance (Col). The CA will not be executed until the OEM e-signs the document after uploading a Col. The Certificate of Insurance (Col) must be completed prior to final e-signature processing for CA.

The screenshot shows the Verizon Open Development Certification Agreement (CA) online interface. The page title is "OPEN DEVELOPMENT CERTIFICATION AGREEMENT FOR". The page content includes the Verizon logo, navigation links (Devices & Modules, Get Certified, FAQ), and a "Download a copy of this document" link. A callout box labeled "Download the CA online" points to this link. Below the link is a preview of the agreement document, which includes the text "This Open Development (\"OD\") Certification Agreement (\"Certification Agreement\" or \"Agreement\") is made between... Verizon Way, Basking Ridge, NJ 07920, on behalf of itself and for the benefit of...". A callout box labeled "Review the CA online" points to the document preview. At the bottom of the document preview, there are two buttons: "I Agree >" and "I Disagree >". A callout box labeled "Accept the CA online to start the Col process" points to the "I Agree >" button. The page footer shows "Done" and "86%".

5.3 Certificate of Insurance (Col)

Issued to the **DEVELOPER** and must be provided to Verizon as proof of valid insurance prior to execution of CA.

See the following page for an explanation of Col terminology.

The screenshot shows a web form titled "Certificate of Insurance for" with a "Back" link. A green notification bar at the top states "Certification of Insurance details have been saved successfully." The form contains several sections with input fields and radio buttons:

- Employers liability***: Input field with value "\$ 1000000 (USD)". A red arrow points from a callout box to this field.
- Worker's Compensation***: Radio buttons for "Yes" and "No".
- Commercial General Ability**:
 - Per occurrence***: Input field with value "\$ 1000000 (USD)".
 - Aggregate***: Input field with value "\$ 1000000 (USD)".
 - Or equivalent umbrella policy***: Radio buttons for "Yes" (selected) and "No".
 - Product Liability***: Radio buttons for "Yes" (selected) and "No".
 - Commercial Auto Liability***: Input field with value "\$ 1000000 (USD)".
- Verizon as Additional Insured**:
 - General Liability***: Radio buttons for "Yes" (selected) and "No".
 - Auto Liability***: Radio buttons for "Yes" (selected) and "No".
 - Waiver of subrogation***: Radio buttons for "Yes" (selected) and "No".
 - Start Date***: Input field with value "1/15/2017".
 - Expiration Date***: Input field with value "1/1/2018".
 - Upload COI (PDF files only. Document must be in English)***: Includes a "Choose File" button, a "Browse" button, and an "Upload" button. A red arrow points from a callout box to the "Upload" button.

At the bottom of the form are "Save" and "Submit" buttons. A red arrow points from a callout box to the "Submit" button.

Minimum amount
prepopulated.

Upload the Certificate of Insurance (Col).

Save to complete later or
Submit online to start the
CA e-signature process

5.3.1 Certificate of Insurance Terminology

Certificate of Insurance Terminology

1.) PRODUCER –

The Insurance Agent or Broker who issues the certificate of insurance.

2.) INSURED –

The legal name of the contracting party

3.) CONTACT INFO

The contact information is between insurer and insured and not relevant to Verizon.

4.) ADDITIONAL INSURERS –

The primary insurer may not be the only insurer responsible for the policy.

This area identifies additional insurance companies that may be partially responsible for the policy.

5.) TYPE OF INSURANCE –

The insurance requirement defined in the contract. Compared to the contract, the insurance liabilities must match.

Typically, the fields are checked off when completed.

6.) POLICY NUMBER –

The insurance policy number issued to the contracting party.

Normally, the policy number is entered per row of information.

7.) POLICY EFFECTIVE DATE –

The date the policy goes into effect.

The date is entered per row of completed information.

ACORD CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If this certificate holder is an ADDITIONAL INSURED, the policy(s) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsements.

PRODUCER: [1] NAME: [3] DATE: [3]

INSURED: [2] ADDRESS: [3] CITY: [3] STATE: [3] ZIP: [3]

COVERAGES: [5] CERTIFICATE NUMBER: [6] REVISION NUMBER: [6]

DESCRIPTION OF OPERATIONS / LOCATIONS / SERVICES (AS APPLICABLE TO, LASTORIGIN BUSINESS DESIGN, POLICY GROUPS (HIGH/L))

CERTIFICATE HOLDER: [11] CANCELLATION: [12]

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8.) POLICY EXPIRATION DATE –

The date the policy is no longer valid.

The date is entered per row of completed information.

9.) LIMITS –

The corporate agreement (contract) will outline the limits or requirements the policy needs to cover.

Certificate of Insurance Terminology

10.) DESCRIPTION –

The description needs to:

- Name Celco Partnership DBA Verizon Wireless as an additional insured.
- List that the customer's insurance shall be primary without contribution from Verizon Wireless.
- Include a waiver of subrogation in favor of Verizon Wireless.

NOTE: Verbiage may vary but still needs to reference the points above.

11.) CERTIFICATE HOLDER –

The Certificate Holder needs to have a Verizon Wireless corporate location listed, most commonly, the Basking Ridge location.

12.) AUTHORIZED REPRESENTATIVE –

The signature of the insurance company should be present here.

ACORD CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER: [1] NAME: [3] DATE: [3]

INSURED: [2] ADDRESS: [3] CITY: [3] STATE: [3] ZIP: [3]

COVERAGES: [5] CERTIFICATE NUMBER: [6] REVISION NUMBER: [6]

DESCRIPTION OF OPERATIONS / LOCATIONS / SERVICES (AS APPLICABLE TO, LASTORIGIN BUSINESS DESIGN, POLICY GROUPS (HIGH/L))

CERTIFICATE HOLDER: [11] CANCELLATION: [12]

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5.3.2 Certificate of Insurance Guidance

Incomplete or incorrect information in the Col will result in a request to provide an updated Col.

Insurance limits, coverage, and waiver of subrogation should match the insurance requirements detailed in the Certification Agreement.

The following are the most frequent mistakes when providing a Certificate of Insurance.

- **The Col needs to be signed.**
- **The Col & Contract/Certification Agreement name must match.**
- **Verizon must be listed as the certificate holder.**
- **The lack of subrogation clause in the Description of Operations field.**
- **Incorrect coverage/limits**

6. “Manage Devices”

After Company Registration and completion of NDA, the user is able to create and update devices for Open Development certification.

Select “Manage Devices” to get to the device Management Page.

Select “Add New Device” to create a new device.

Select an existing device under “My Devices” to continue working with an existing device.

The screenshot displays the Verizon Open Development portal. At the top left is the Verizon logo. A navigation bar contains the following items: "Devices & Modules", "Get Certified" (highlighted in red), and "FAQ". Below this is a secondary navigation bar with "Manage Devices" (circled in red), "Requirement & Test Plan Documentation", "Manage Account", and "Manage Agreements".

The main content area begins with a "Welcome" message: "This site designed to support your vision of bringing new products and services to the wireless marketplace on the Verizon Wireless network. Thanks you for your interest in partnering with us on Open Development. - The Verizon Wireless Open Development Team ([Contact Us](#))".

Below the welcome message is the "My Devices" section. It features a link for "Add New Device" (circled in red). Underneath, there are two device entries, each with a plus sign to its right: "XYZ - (Device Registration)" and "Test-GP ~ Pending Maintenance Release - (APPROVED) - [[Upload Device Ids](#)]".

6.1 “Create New Device”

User is taken to screen #1 (of 5 total) to enter device information.

The “Created by”, “Company”, and “Entry Date” fields are auto-populated.

All fields highlighted with * are required.

User must enter all required fields in order to access other pages.

See the Appendix for a description of fields on this page.

User is taken to page 2 after completing items on this page and selecting Next.

verizon Devices & Modules [Get Certified](#) [FAQ](#)

[Manage Devices](#) [Requirement & Test Plan Documentation](#) [Manage Account](#) [Manage Agreements](#)

[Create New Device](#) [Home](#) [1](#) [2](#) [3](#) [4](#) [5](#)

Please provide details for your new device.
You do not have to save all details at this time, however, you will not be able to submit your device for the certification process unless all required pieces of information are provided. Clicking 'Next' below will save your progress.

* Required

Created by

Company

Verizon Sales Control

Entry Date

Device Name *

FCC ID *

Device Model *

Device ID Upload Method *

OTA ID

Device ID Upload Details *

Government Certifications

Able to sell device under government control? If yes, please list any government certifications.

Certification Type *

Change?

Account Manager *

Certification Owner

Submission Type *

Development Design *

Select Labs *

Available

- TLayers
- Catcom
- INTEK
- NO LAB NAME
- POTest
- S&S
- Tech Manindra
- TEST LAB
- VERIZON
- VZW

selected

[Add >>](#)

[Remove <<](#)

[Home](#) [Save](#) [Next >](#)

6.2 Device Info Home Page

After a user has completed and saved the device info, the “Device Info” page layout updates to provide a current view of the device status in the Certification process.

Device Certification Stages:

Device Registration: User enters device information supporting certification.

DLD: Verizon will determine testing required for device certification based on device features.

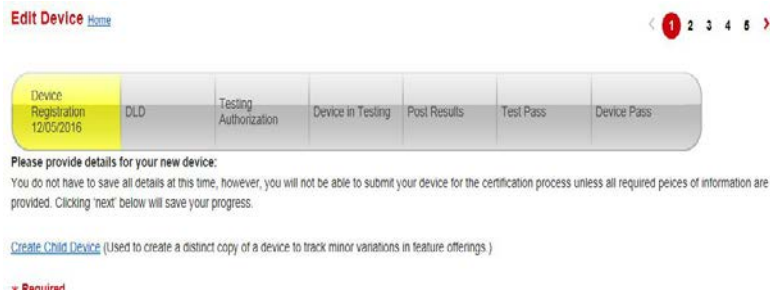
Testing Authorization: Verizon notifies OEM selected 3rd party labs of device test requirements.

Device in Testing: Devices are in active testing at 3rd party lab.

Post Results: Testing is complete and test results are available.

Test Pass: Test results reviewed and Verizon NDET lab has certified device passes required testing.

Device Pass: All Certification requirements and agreements are complete, and a device with approved hardware and software is certified for activation on Verizon’s network.



More Information on the Certification process and stages can be found online



See our quick and easy certification process.

[DOWNLOAD OUR COMPLETE CERTIFICATION PROCESS](#)

6.3 “Marketing Info” (Page 2)

When “Device Info” page is completed, the user is able to navigate to other pages by selecting number at top right of page, or by selecting Next at the bottom of each page.

The “Marketing Info” page is used to provide customer facing information in the OD Showcase to anyone searching for modules or devices on the Verizon website and should be completed thoroughly to provide all relevant information to end users.

All fields highlighted with * are required.

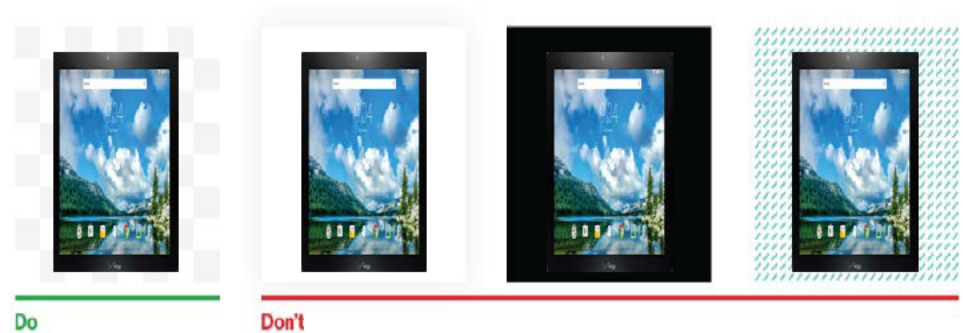
6.3.1 Marketing Info: Device Images

The uploaded device image should be 400pixels X 400pixels with a **transparent** background and not larger than 500KB.

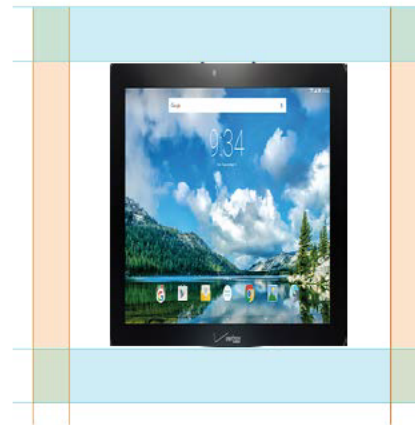
Product images should be masked out with a transparent background and saved as PNGs if possible.

The image should be clear of logos or other graphic elements not related to the product.

The product should be centered with a clear area above, below, and to the left and right of the device.



Note: The background should be **transparent**, it is shown checkered here to distinguish from a white background.



6.4 “Forecast Info” (Page 3)

Please complete all five sections: Summary, Additional Information, Use Cases, Subscriber Forecast and Usage Forecast.

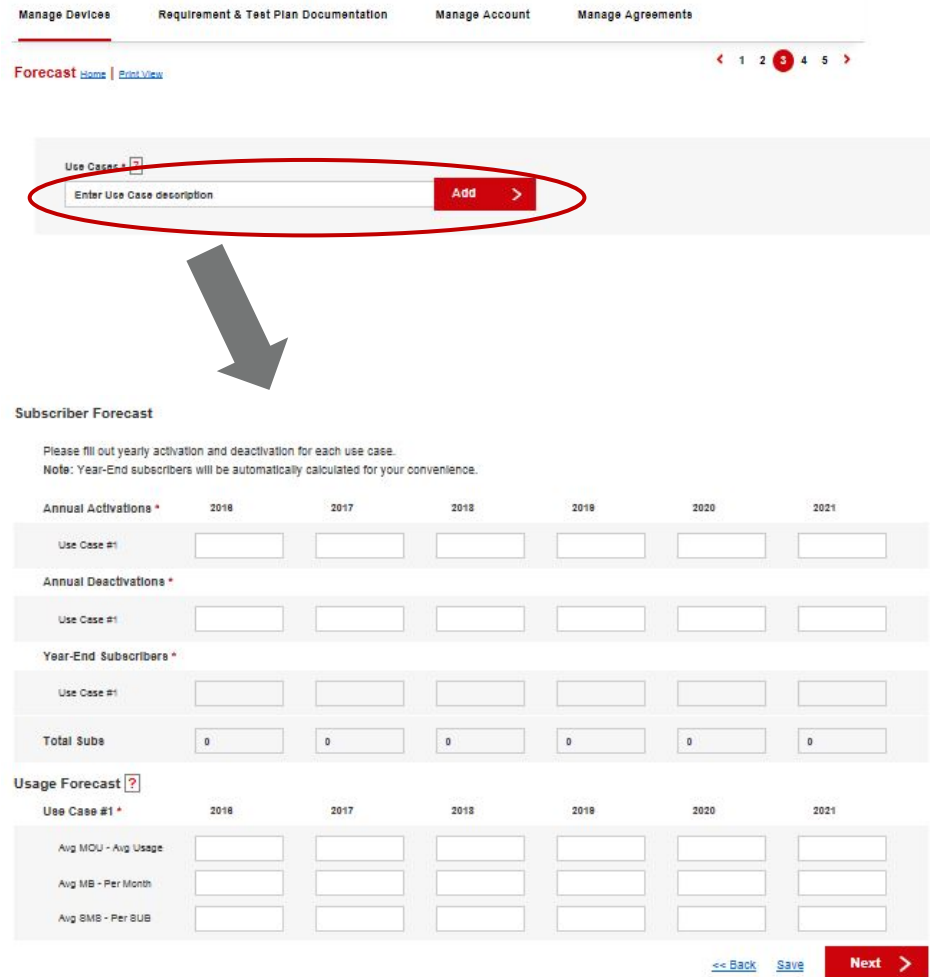
Note: A use case must be added for its corresponding subscriber / usage forecasts to appear.

At least 1 use case is required for device submission.

Usage forecast is provided by OEM per use case.

- Avg MOU refers to minutes of voice usage/month
- Avg MB is average MB of data usage/month
- Avg SMS is average number of SMS messages/month

All fields highlighted with * are required.



Manage Devices Requirement & Test Plan Documentation Manage Account Manage Agreements

Forecast [Home](#) | [Print View](#) < 1 2 3 4 5 >

Use Cases [Add](#) >

Subscriber Forecast

Please fill out yearly activation and deactivation for each use case.
Note: Year-End subscribers will be automatically calculated for your convenience.

Annual Activations *	2016	2017	2018	2019	2020	2021
Use Case #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Annual Deactivations *						
Use Case #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Year-End Subscribers *						
Use Case #1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Total Subs	0	0	0	0	0	0

Usage Forecast ?

Use Case #1 *	2016	2017	2018	2019	2020	2021
Avg MOU - Avg Usage	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Avg MB - Per Month	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Avg SMS - Per SUB	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[<< Back](#) [Save](#) [Next >](#)

6.5 “Release Notes” (Page 4)

The information on the release notes page is used to provide information to the Verizon Authorized 3rd Party Test Labs to assist them in testing your devices.

All information must be completed prior to device submission.

Some of the fields will be pre-populated from information entered on the “Device Info” page.

All fields highlighted with * are required.

Manage Devices Requirement & Test Plan Documentation Manage Account Manage Agreements

Release Notes > Home | < Back View

Manufacturer Name Model / Product ID Date

OTA ID GCF ID * CE MARK ID * ?

FCC ID Chipset Type *

LTE Device Lab Conformance LTE Device Regression LTE Device Maintenance

Safe for Network Phase 1 SW Regression

HW Regression

Device Software Revision * Device Hardware Revision * Embedded Module (If applicable) *

Module Hardware Version * Module Software Version * 3GPP Release

Recertification

Category Support * Refer to 3GPP website for more information on how to select the appropriate Category Support: <http://www.3gpp.org/keywords-acronyms/1612-ue-category>

6.6 “Documents” (Page 5)

Additional documentation page for uploading documents required in support of the device submission.

Templates for all forms are available by selecting the template links. OEMs should update the documents and then upload.

Test Device IDs are uploaded by submitting a file with the test device IDs.

Up to 20 devices are allowed using a pre-certified module.

Please create a TXT or CSV document with one device serial number per line.

The screenshot shows the 'Documents' page in a web portal. At the top, there are navigation tabs: 'Manage Devices', 'Requirement & Test Plan Documentation', 'Manage Account', and 'Manage Agreements'. The 'Documents' tab is active. Below the navigation, there is a breadcrumb trail 'Documents' and a pagination control showing '1 2 3 4 5', with '5' being the current page. The main content area is titled 'Additional Pre-Submission Documentation' and contains the following sections:

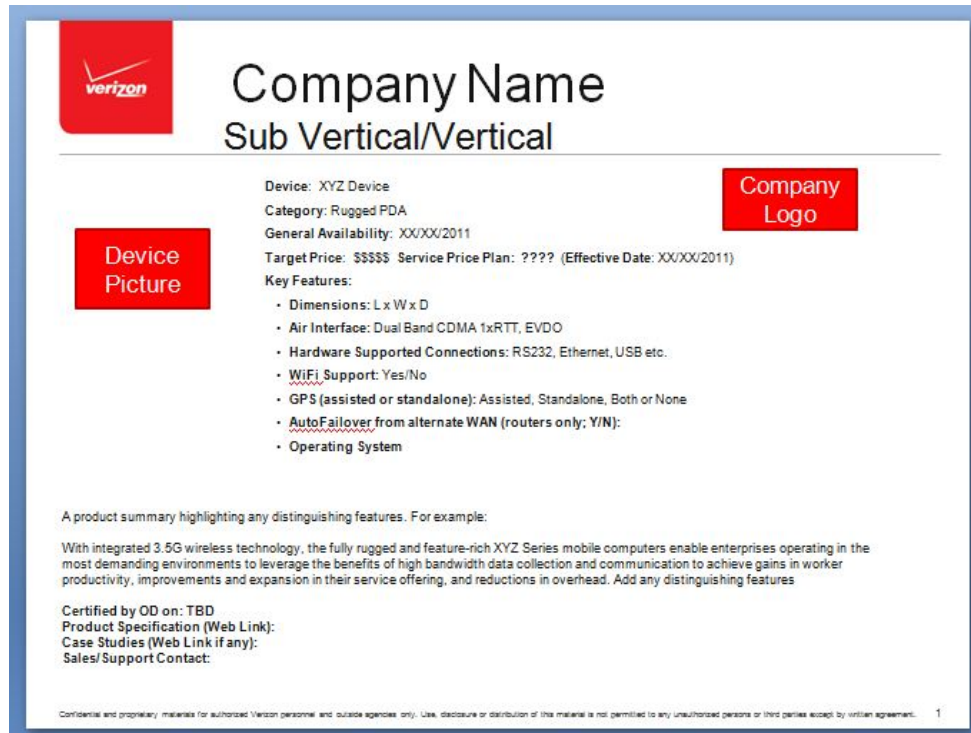
- VZW ID**: A note stating that the following documents are required to be completed prior to submitting the device for the certification process. It instructs users to download each document template, fill it out, and upload the completed file.
- Certification Request**: Template updated on 11/3/2015. It includes a link to 'Certification_Request_Form_Template.doc', a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button.
- Device Solutions One Pager**: Template updated on 10/21/2013. It includes a link to 'DeviceSolutions_One_Pager_V3.0.pptx', a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button.
- DMD Provisioning and ESN or MEID Activation Authorization for CDMA**: Template updated on 4/13/2016. It includes a link to 'OD_DMD_v2.10.xls', a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button.
- Open Development TECC (Test Entrance Criteria Checklist)**: Template updated on 5/16/2017. It includes a link to 'OD_TECC.xlsx', a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button.
- Waiver Request (optional)**: Template updated on 2/4/2015. It includes a link to 'WaiverRequest.zip', a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button.

Below these sections is the **Test Device IDs** section. It contains a note: 'You may submit a file with the test device IDs you would like to use for this device. Files may not exceed 500 serial numbers. Up to 20 devices are allowed using a pre-certified module. Above and beyond will require business justification for approval.' It also includes a link to 'Example' and a 'Type' dropdown menu currently set to 'ESN HEX'. Below the dropdown is a 'Choose File' input field, a 'Browse >' button, and an 'Upload' button. At the bottom right of the page, there are three buttons: '<< Back', 'Save', and 'Finish & Submit >>'.

6.6.1 Device One Pager

The Device One Pager is used to provide general information for the device.

Include one or more pictures of the device from front, back, and side to show connections options and/or connectors and other physical attributes.



verizon

Company Name

Sub Vertical/Vertical

Device: XYZ Device
Category: Rugged PDA
General Availability: XX/XX/2011
Target Price: \$\$\$\$\$ Service Price Plan: ???? (Effective Date: XX/XX/2011)

Device Picture

Company Logo

Key Features:

- Dimensions: L x W x D
- Air Interface: Dual Band CDMA 1xRTT, EVDO
- Hardware Supported Connections: RS232, Ethernet, USB etc.
- WiFi Support: Yes/No
- GPS (assisted or standalone): Assisted, Standalone, Both or None
- AutoFailover from alternate WAN (routers only; Y/N):
- Operating System

A product summary highlighting any distinguishing features. For example:

With integrated 3.5G wireless technology, the fully rugged and feature-rich XYZ Series mobile computers enable enterprises operating in the most demanding environments to leverage the benefits of high bandwidth data collection and communication to achieve gains in worker productivity, improvements and expansion in their service offering, and reductions in overhead. Add any distinguishing features

Certified by OD on: TBD
Product Specification (Web Link):
Case Studies (Web Link if any):
Sales/Support Contact:

Confidential and proprietary materials for authorized Verizon personnel and outside agencies only. Use, disclosure or distribution of this material is not permitted to any unauthorized persons or third parties except by written agreement. 1

6.6.2 DMD Form

The DMD Provisioning and ESN or MEID or IMEI Activation Authorization for LTE is used to provide device identification ranges and features supported so that the devices can be activated and the features supported appropriately on the Verizon network.

OEMs should complete the spreadsheet by indicating the device ID ranges and whether the listed features are supported.

LTE_DMDform_v1.6.xls [Read-Only] [Compatibility Mode]

	A	B	C	D	E	H
22	22		Major Service or Feature (NOTE 3)			
			BasicPhone, FeaturePhone, SmartPhone, NetBook or Modem (PCMCIA Card, USB, express etc.)			
23	23	Product Type				
24	24	Production SKU				
25	25	Launch kit SKU				
26	26	Seed Unit SKU				
27	27	VisionID (The System Code Mapped to SKUs)				
28	28	Form Factor				
29	29	ETF (Early Termination Fee)				To be completed by Device Marketing Product Development Team
30	30	Price Plan				To be completed by Device Marketing Product Development Team
31	31	CDMA Voice	Y or N			
32	32	AMPS Voice	Y or N			
33	33	GSM Voice	Y or N			

LTE_DMDform_v1.6.xls [Read-Only] [Compatibility Mode]

DMD Provisioning and ESN or MEID or IMEI Activation Authorization - Effective Immediately (NOTE 1)
 (DMDForm_FileName shall follow the format of DMD_manufacture_ProductModel#.xls.
 No marketing name for devices shall be used, only the final product model # shall be used)

Item #	Field	Description	Device Vendor Response			
4	Date (MM/DD/YYYY)	Form Completion Date				
5	Manufacturer Name	Manufacturer Name				
6	Product Model Number	Model Number				
7	Product Model Name	Model Name				
8	Model Identification for OTA (as defined in the YZW OT requirements) (NOTE 2)	Base Mobile Model, 3GSS, Mobile Firmware Revision				
9	Product Status (Commercial Grade or Development Project)	Define Device Product Status				
10	Test DRCC Type	Select Device OS	Select			
11	BREV/FDD Value	Value of the BREV Platform ID				VZW Approval for ESNs or MEID or IMEIs to Activate with Guidelines (if Applicable)
12	ESN or MEID or IMEI (Device Vendor Contact)	Contact name, desk & mobile number	Start Range (HEX)	End Range (HEX)	Total (calculation)	For SDM capable Test Devices
13	ESN or MEID or IMEI Range (HEX format) for Production, Submit via EDI transfer	ESN or MEID or IMEI Range for device model	Send via EDI transfer. Do not enter into this form	Send via EDI transfer. Do not enter into this form	N/A	N/A
14	ESN or MEID or IMEI Range (HEX format) for Device Vendor Development, YZW and YZW 3rd Party Suppliers	ESN or MEID or IMEI Range for device model	0	0	0	For SDM capable test devices (ESN or MEID or IMEI) do the following: (1) type "TEST_DEVICE" instead of this form instead of the product model number
15	ESN or MEID or IMEI Range (HEX format) for Sale For Network, Device Evaluation Only (VZW Lab testing and YZW 3rd Party)	ESN or MEID or IMEI Range				
70	70	CDMA FOTA (Over The Air Upgrade) - VZW server solution				Y or N
71	71	DSU (Over The Air Upgrade) HMM proprietary solution				Y or N
72	72	DSU (Over The Air Upgrade) Google proprietary solution				Y or N
73	73	DSU (Over The Air Upgrade) Palm proprietary solution				Y or N

Only [Compatibility Mode]

	C	D	E	H
*Band 1	Y or N			
*Band 2 (MHz)	Y or N			
*Band 3	Y or N			
*Band 4 (A/W)	Y or N			
Pre-serializable (MFI) (to Package tied in Pre-P4)				
N/A or PP or PP or MFI	Y or N			
*700 MHz C	Y or N			
*4H2	Y or N			
*4H3	Y or N			
*4H4	Y or N			
*4H5	Y or N			
*4H6	Y or N			
*4H7	Y or N			
*4H8	Y or N			
*4H9	Y or N			
*4H10	Y or N			
*4H11	Y or N			
*4H12	Y or N			
*4H13	Y or N			
*4H14	Y or N			
*4H15	Y or N			
*4H16	Y or N			
*4H17	Y or N			
*4H18	Y or N			
*4H19	Y or N			
*4H20	Y or N			
*4H21	Y or N			
*4H22	Y or N			
*4H23	Y or N			
*4H24	Y or N			
*4H25	Y or N			
*4H26	Y or N			
*4H27	Y or N			
*4H28	Y or N			
*4H29	Y or N			
*4H30	Y or N			
*4H31	Y or N			
*4H32	Y or N			
*4H33	Y or N			
*4H34	Y or N			
*4H35	Y or N			
*4H36	Y or N			
*4H37	Y or N			
*4H38	Y or N			
*4H39	Y or N			
*4H40	Y or N			
*4H41	Y or N			
*4H42	Y or N			
*4H43	Y or N			
*4H44	Y or N			
*4H45	Y or N			
*4H46	Y or N			
*4H47	Y or N			
*4H48	Y or N			
*4H49	Y or N			
*4H50	Y or N			
*4H51	Y or N			
*4H52	Y or N			
*4H53	Y or N			
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*4H56	Y or N			
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*4H58	Y or N			
*4H59	Y or N			
*4H60	Y or N			
*4H61	Y or N			
*4H62	Y or N			
*4H63	Y or N			
*4H64	Y or N			
*4H65	Y or N			
*4H66	Y or N			
*4H67	Y or N			
*4H68	Y or N			
*4H69	Y or N			
*4H70	Y or N			
*4H71	Y or N			
*4H72	Y or N			
*4H73	Y or N			
*4H74	Y or N			
*4H75	Y or N			
*4H76	Y or N			
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*4H81	Y or N			
*4H82	Y or N			
*4H83	Y or N			
*4H84	Y or N			
*4H85	Y or N			
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*4H87	Y or N			
*4H88	Y or N			
*4H89	Y or N			
*4H90	Y or N			
*4H91	Y or N			
*4H92	Y or N			
*4H93	Y or N			
*4H94	Y or N			
*4H95	Y or N			
*4H96	Y or N			
*4H97	Y or N			
*4H98	Y or N			
*4H99	Y or N			
*4H100	Y or N			



6.6.3 OD TECC

The OD Test Entrance Criteria Checklist (TECC) is used to capture the required testing for device certification.

Device OEMs should complete the draft TECC by filling in the device information and selecting whether the features are supported.

The NDET Device Test Owner (DTO) will review the draft TECC and finalize the TECC based on device info.

The final TECC will be provided to the OEM selected 3rd party test labs to show the desired device testing required.

Open Development Test Entrance Criteria Checklist

Version 7.6.2 REQUIREMENTS RELEASE DATE: Feb 2017 ATS DATE: TECC Expiration DATE(90 days from ATS DATE):

TECC VZW Point of Contact (To be Selected by VZW representative)

NDET DTO: Select

ODI's Certification Owner: Select

SELECTION TO BE COMPLETED BY DEVELOPERS

Please READ 'Important Information' tab before filling out the TECC

ATTENTION: ALL LTE devices must support Firmware update Over-The-Air (aka, FOTA), otherwise, no ATS or TA can be issued. Please also read the section of "INSTRUCTIONS for DEVELOPERS" in the first tab of "Important Information".

Entrance DATE:

Product ID:

OEM Name:

Device SW Version:

Device HW Version:

Module or Chipset OEM:

Module or Chipset Model:

Module/Chipset SW Version:

Module/Chipset HW Version:

Select the answer that best suits your device

Device Form Factor: Select the Form Factor of your Device: Select

Distribution channel: Select

Lab:

CDMA self-test? Select

CDMA self-test Lab name(s): Select

Verizon Approved Test Lab: Select

Operating System: OS: Select

Basic Functionality:

VZW Certified Module: Select

To be selected by NDET: Certified Chipset (CCP): Select

Voice (V) Capability: Select

Data Capability: Select

Global Capable (UMTS/SWIM): Select

LTE/VoLTE Functionality:

Submission Type and Phase to be selected by OEM per the guidance from VZW Business Representative.

Submission Type	Select
Submission Phase	Select
Device Type	Select
LTE Band 4	Select
LTE Band 2	Select
LTE Band 5	Select
LTE Band 66	Select
ALO	Select

Testing Required (Please refer to Required Test Case List tab)

Manual Selection	Tests to be Executed	No
Not Required	In RF Parameters: IS-2000 and IS-95	
Not Required	MEV-DO Parameters: Rev 0: Required only if the device is Rev 0 device without Rev A.	
Not Required	MEV-DO Parameters: Rev A	
Not Required	Location Determination: Parameters: Minimum Performance	
Not Required	Location Determination: Privacy	
Not Required	Location Determination: GPS Field testing	
Not Required	MIPV/DMU	
Not Required	MEV-DO A12	
Not Required	E911 Call Processing	
Not Required	Wireless Priority Services	
Not Required	OTASP	
Not Required	OTAPA	
Not Required	SMS-EMS: SMS	
Not Required	SMS-EMS: EMS	
Not Required	Data Session Throttling and Pcty	
Not Required	C.S004-A, C.S007-A, C.S008-A (CDMA Signaling Conformance)	
Not Required	System Acquisition & System Acquisition In-EVDO	
Not Required	Location Determination: GPS Antenna	
Not Required	MMS IOT (Nokia Siemens)	
Not Required	CMAS	
Not Required	LBS	
Not Required	Android platform	




LTE Multimode Test Plans

6.6.4 Waiver Requests

The WaiverRequest.zip package is downloaded from the OD portal and contains instructions for submitting waiver requests, a waiver request tracking spreadsheet, and a waiver request template.

OEMs should fill out a detailed waiver request for each failed test case.

Waiver requests are to be submitted by combining all individual waiver requests, as well as the waiver tracker spreadsheet, into a *.zip file and uploading the complete waiver package to the OD portal.

Name	Type	Con
 READ_ME_FIRST_Waiver_Request_...	Adobe Acrobat Document	
 Waiver_Request_Template.pptx	Microsoft Office PowerPoint Presentation	
 Waiver_Request_Tracker_Template....	Microsoft Office Excel Worksheet	

Waiver Request

Manufacturer: Date:
Model:
Software version:
Hardware version:
Requirement Document and Number:
Impacted Test Cases:
Duration {How long the waiver applies for?, Permanent or Temporary(P1, SFN...)}:
Description of Waiver requested:

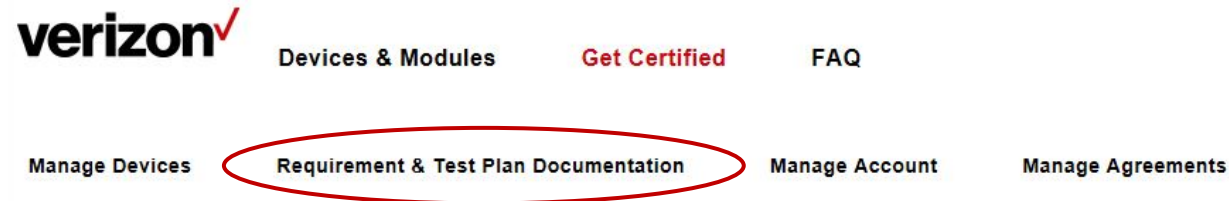
Justification/Supporting information (Detailed explanation of why the feature, performance, etc. cannot be supported):

- If applicable, add the following
- Photos/Diagrams:
- Customer/Network Impact:
- Issue resolution date (if applicable):
- Test Parameters:
- Test Results:
- Feature Lockdown Reference:

VZW Proprietary & Confidential Subject to Non-Disclosure Obligations between
VZW & Your Company

1

7. “Requirement & Test Plan Documentation”



This page contains documentation needed to understand the Verizon Open Development device requirements and test plans for device certification under the Verizon Open Development program.

This page will be updated as new requirements or test plans are released, so developers should refer back to this documentation as reference material.

8. “Manage Account”

Allows users to update their account information:

- Company Information
- User Profile Information
- User Contact Information
- Add new users to the Company profile.

Note that a user must meet the following prerequisites to add new users:

1. Uploaded Company Logo
2. Complete Contact information
3. The new user and the submitter must have the same email domain address (e.g. “@verizonwireless.com”)

- Reactivate existing users in the Company profile.

The screenshot displays the 'Manage Account' section of a web application. At the top, there are navigation tabs: 'Manage Devices', 'Requirement & Test Plan Documentation', 'Manage Account' (which is selected and underlined), and 'Manage Agreements'. Below the tabs, the 'Account' section is visible, with a 'Home' link. It contains a 'Company Information' form with fields for 'Name' (Example Example) and 'Website' (opennetwork.verizonwireless.com/content/open-development/home.html). A box on the right indicates where to 'Update to provide your company logo'. Below this is the 'Users' section, which includes 'My Information' (Profile Information, Name, UserName, Email, Password with a 'Change' link) and 'Contact Information' (Address, Mobile, Business, Fax). At the bottom, there is a section for 'Other Users In My Company' with an 'Add New User' link and a table with columns for 'Name', 'Email', and 'status'.

9. “Verizon Showcase”: Updating device fields

After device certification, Marketing Info fields can be updated by the device OEM if needed without recertifying the device.

Marketing Info fields can be updated even if the device is shown as locked.

[Home](#) [Edit Marketing Info](#) [Documents](#)

Device Registration 04/05/2017	DLD 04/06/2017	Testing Authorization 04/06/2017	Device in Testing 04/06/2017	Post Results 04/06/2017	Test Pass 04/06/2017	Device Pass 04/06/2017
-----------------------------------	-------------------	-------------------------------------	---------------------------------	----------------------------	-------------------------	---------------------------

NOTICE: This device submission has been locked and cannot be edited.

Update the Marketing Info fields for the device and select “Save” at the bottom of the page.

By clicking the save button, the information in this page will be submitted to the OD team for approval. This content will be published on the VZ Showcase site upon approval. [Open Showcase](#)

[Save](#)

Send an email to the device certification manager with the requested changes, so the changes can be reviewed and propagated to the OD Showcase.

Appendix: Device Info Fields

Created By	System will auto fill this field based on user account.
Company	System will auto fill this field based on user account.
Verizon Sales Contact	Fill in if known. If developer doesn't know Verizon Sales Contacts, Verizon ODPT team will assign device to appropriate team/Individual.
Entry Date	System will auto fill this field.
Device Name	Device name must match what developer has listed it in TECC, DMD, Release Notes and other pre-submission forms.
FCC ID	It is an ID provided by US Federal Communications Commission after successful type approval. Note: All devices must be type approved and certified by the FCC before OD conformance testing can commence.
OTA ID	OTA-ID is assigned by the Developer. In accordance with the Open Development Specification (ODS) OTA requirements, the OTA-ID is a numeric representation of a two individual binary components <ul style="list-style-type: none"> - mob_model 8 bits - mob_firm_rev 16 bits <ul style="list-style-type: none"> o If the DEVELOPER is using a Verizon Wireless approved module, then the module vendor's OTA ID can be used. o N/A for LTE Only devices
Device Radio	Select "LTE", or "CDMA and LTE" if device is multimode.
Device Module	Select module from the drop down list. If developer is using different module, Select "Other" and provide info about it.

Device Info Fields (continued)

Device ID Upload Method	Select applicable option. -EDI (Electronic Data Interchange) - ODPT provides Developer with EDI requirements and credentials for accepting device technical information submission. -ODI Web portal: This option is available only if device is using Verizon wireless approved module.
Device ID Upload Details	If Upload method is EDI, provide the manufacturer and contact information for the responsible party to make the upload.
Government Certifications	If device is targeted for government contracts, please select check box and provide certificate details.
Certification Type	Select Full Certification or Safe for Network (SFN is only for additional test devices, not commercial certification).
Channel	Sales Channel. Select Direct (device usage billed by Verizon), Wholesale (device usage billed by a Verizon wholesale reseller), or LRA (LTE Rural America)
Account Manager	Enter if known. If not known, leave –To be Assigned, and the Verizon ODPT team will assign device to appropriate team/Individual.
Certification Owner	Enter if known. If not known, leave –To be Assigned, and the Verizon ODPT team will assign device to appropriate team/Individual.
Submission Type	Select Device, Module, or Chipset as appropriate.
Development Design	Select the appropriate device design.
Labs	Select the 3 rd party lab(s) who will be performing device testing.

Thank you.

Questions?

VZWOpenDevelopment-1@VerizonWireless.com