

# Matter development checklist

**Important:** Your device must be certified by the [Connectivity Standards Alliance \(Alliance\)](https://csa-iot.org/) (<https://csa-iot.org/>) in order to launch it as a Google-integrated product.

## Develop

### 1. Build a Matter-enabled device.

- ☐ 1. Set up your development environment, including SDKs, your IDE, and your build configuration.
- ☐ 2. Add Matter support to a device. Use a [vendor-supported example](#) ([/matter/supported-devices#table-supported-vendors](#)) as a starting point if necessary.
- ☐ 3. Implement [commissioning](#) ([/matter/primer/commissioning](#)) capability in your device.
- ☐ 4. Map applicable [Matter entities \(endpoints, clusters, attributes, and commands\)](#) ([/matter/primer/device-data-model](#)) to your device.
- ☐ 5. Implement Matter capabilities in the device ([control](#) ([/matter/primer/interaction-model-invoking](#)) and [query](#) ([/matter/primer/interaction-model-reading](#))).

[Build a Matter device](#)

[Google Home Extension for VS Code](#)

*Tools to help you start building*

2. Register with the [Alliance](#) (<https://csa-iot.org/>) to get your own unique Vendor ID (VID) and Product ID (PID). If you don't have your own VID or PID, choose one that is allocated for testing purposes. To use a production VID for an integration, the production VID must be verified and added to the allow list.

- ☐ 1. Create a Google Home Developer Console [project](#) ([/matter/project/create](#)) or import an existing project from Actions on Google.

**Important:** For existing Cloud-to-cloud devices, implement deduplication (/matter/device-deduplication) using the same project ID.

☐ 2. Create a company profile (/matter/project/profile).

**Note:** If you migrated your project from Actions on Google, revise your company profile in the Actions on Google Console.

☐ 3. Create a Matter integration (/matter/integration/create).

3. Connect your device and enable setup in your app, Android app, or Google Home app (GHA).

☐ 1. Pair the device (/matter/integration/pair) using the GHA.

☐ 2. Control the device (/matter/integration/control) through the Google Home ecosystem.

Home  
Mobile SDK  
for Android

Thre  
ad

*Android SDKs for pairing and control*

## Test & Field Trial

4. Test your Matter integrations (/matter/test) before you submit for Certification.

☐ 1. Launch Google Home Test Suite (https://home-testsuite.webapps.google.com/) or use the Test tab in the Developer Console.

☐ 2. Configure your test (/matter/test#set\_up\_your\_tests).

☐ 3. Run your test (/matter/test#run\_your\_tests).

**Important:** This is also a good time to **test your commissioning flow in Production** to make sure there are no issues.

☐ 4. Review the test results (/matter/test#view\_and\_interpret\_your\_test\_results).

☐ 5. Submit the test results.

5. Perform a Field Trial, if required, before you submit for Certification.

☐ 1. Review the [Field Trial guidelines](/matter/field-trial) (/matter/field-trial).

☐ 2. [Plan the Field Trial](/matter/field-trial#what_kind_of_information_should_the_field_trial_seek_to_gather)

(/matter/field-trial#what\_kind\_of\_information\_should\_the\_field\_trial\_seek\_to\_gather).

☐ 3. [Conduct the Field Trial](/matter/field-trial/run) (/matter/field-trial/run).

☐ 4. Review the Field Trial results.

☐ 5. Optionally, [share Field Trial results with Google](/matter/field-trial/submit) (/matter/field-trial/submit).

## OTA

6. Prepare an OTA image.

☐ 1. [Create OTA image](/matter/ota/configuration#create_an_ota_image) (/matter/ota/configuration#create\_an\_ota\_image).

☐ 2. [Upload the OTA image](/matter/ota/configuration#upload_the_ota_image) (/matter/ota/configuration#upload\_the\_ota\_image).

7. Test and validate OTA

☐ 1. [Create a Matter device test certificate](/matter/test/certificates) (/matter/test/certificates).

☐ 2. [Test a Matter OTA](/matter/ota/test) (/matter/ota/test).

## Certify & Launch

8. Review the [Certification Requirements](/matter/certification) (/matter/certification) before you submit for Certification.

☐ 1. Resolve all issues if status is not approved.

☐ 2. [Submit Certification](/matter/certification/submit) (/matter/certification/submit).

☐ 3. [Check Certification Status](/matter/certification/status) (/matter/certification/status).

9. Launch your certified integration.

☐ 1. [Launch immediately](/matter/launch#immediately) (/matter/launch#immediately) or [schedule a launch date](/matter/launch#schedule) (/matter/launch#schedule).

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