Debugging

There are a number of different ways to manually test aspects of the app.

Debug information

You can see the current state of the app's configuration (including the device's FPNS/APNS push token if it has one) by opening the debug view.

- Tap the VPC logo on the connection page 20 times.
- This will take you to the debug view.

The debug view has some useful information about the device:

Debug info	Notes
App version	Record this value when reporting an issue.
App build	Version number of the build - should increment between releases.
Build	Values: `RELEASE` / `DEBUG`
Portal	Values: `LIVE` / `TEST`
Push token	If this box is blank, the phone did not manage to register itself with FPNS or APNS.
Device	Some useful information about your device and the version of Android or iOS.

There are also some tools to help debug issues:

Tool	Notes
Export exception logs...	This will allow a user to share the logs from their app with us.
Add test notification	This will create a fake notification in the app - to help debug the user interface.
Simulate crash	This will trigger an exception - to help confirm that these are captured, and simulate the user experience when something goes wrong.

If you want to analyse the exception logs from a particular issue that a user experienced, it's a good idea to ask the user for the time that the issue occurred. The logs can be a little verbose at times.

NB. `RELEASE` builds of the app do not capture verbose information or personally identifiable information in the logs.

Debugging push notifications

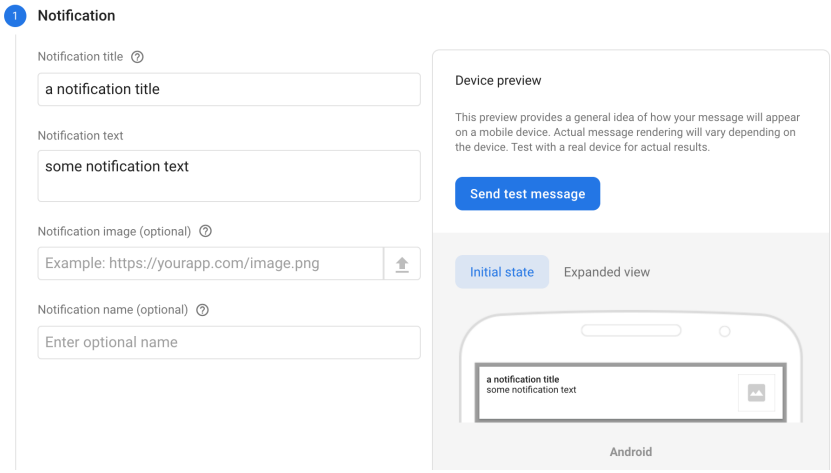
- Place a debug point inside the `CheckTokenWithPortalAsync` method in `App.xaml.cs` to capture the portal token.
- With the token, visit the vpc-connect cloud messaging controls in Firebase.
- From there you can compose a new test notification.
- Compose your notification, and use the **Send test message** button to push it to the phone.

Composing FCM test notifications

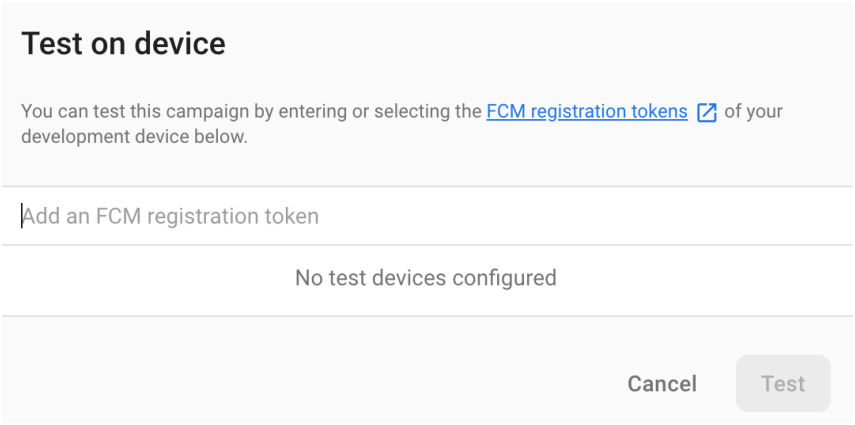
The test notifications you can generate in FCM aren't very sophisticated (they are alert / notification types).

To generate more sophisticated types of notification you'll need to access FCM through the API. See FCM push notification content for more information about the content of push notifications.

1. Visit the vpc-connect notification composer.
2. Compose your notification.



3. Press the **Send test message** button to see the **Test on device** popover.



4. Add the FCM push token for your device, and press the **+** button.
5. Press **Test** to send the message.