

# package:http as the recommended HTTP client

(This is a publicly viewable document!)

## Proposal

The Dart team should promise long-term support for [package:http](#), [package:cupertino\\_http](#), and [package:cronet\\_http](#) and encourage [package:http](#) usage.

## Rationale

There are a wide variety of features that developers have requested for [dart:io HttpClient](#) that can't be implemented without significant effort. For example:

- Use of encrypted keys in the Android keystore ([#50669](#))
- Use of the platform VPN ([#41376](#))
- Use of HTTP3/QUIC ([#38595](#))

[package:http](#) offers an [abstract http Client interface](#) and a mechanism where users can select the implementation that they want on a per-platform basis.

If we encourage developers to start their projects using [package:http](#), then they can easily switch Client implementation (e.g. to [package:http](#), [package:cupertino\\_http](#)) if needed. Hopefully the Dart community will develop solutions to fill in gaps in the offerings that we provide e.g. a Flutter user developed a [package:http](#) Client implementation [using OkHttp so that the Android KeyStore can be used](#).

## Things we need to do

- Signal that [package:http](#), [package:cupertino\\_http](#), and [package:cronet\\_http](#) are going to be supported in the long term by releasing a 1.0 version and publishing them on [dart.dev](#).
- Add support for viewing non-HttpClient traffic in the devtools “Network” tab (see [#4829](#))
- Strengthen the recommendation to use [package:http](#) on the [dart:io HttpClient landing page](#) and eventually deprecated HttpClient.

- Add a better landing page for [package:http](#) that:
  - Explains the value of the package
  - Explains how to choose a Client implementation (maybe a feature table for IOClient, cronet\_http, cupertino\_http?)
  - Explains how to use package:http with flutter
  - Maybe explain how to write a new Client
- Fancy announcement/blog post