

# Taking the bus

Create reactive flutter apps, using an event bus

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By Efthymis Sarmpanis

# About me



**Efthymis Sarmpanis**  
esarbanis

- CTO at OneRoof - <https://oneroofapp.com>
- Founder of Flutter Greek Community (<https://meetup.com/fluttergr>)
- GDE for Dart & Flutter



## Disclaimer #1

*As in all architectural paradigms, this does not claim to solve all of your problems, but it can help you with some of them.*

# Agenda

- Define and explain the bus and its origins
- Address anti-pattern allegations
- Investigate a proper use in a mobile app
- Code Example
- Pros & Cons

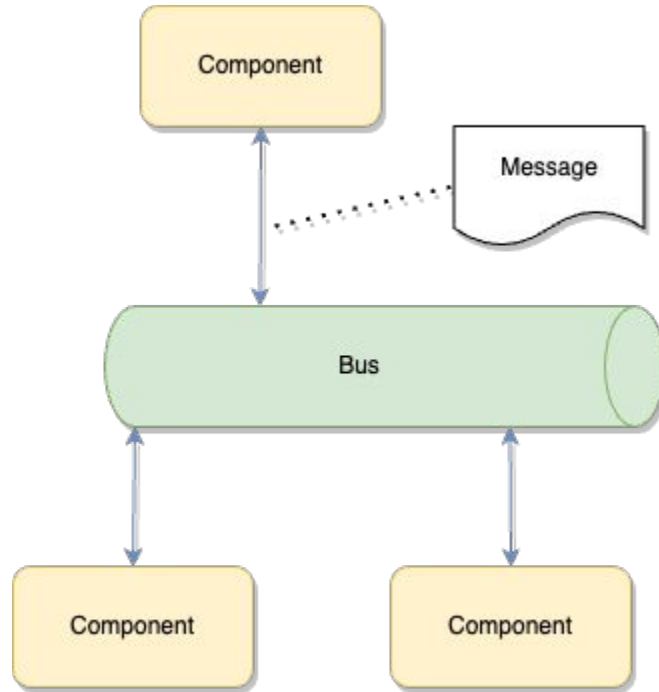
What is a bus?

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What is a bus?



# What is a bus?

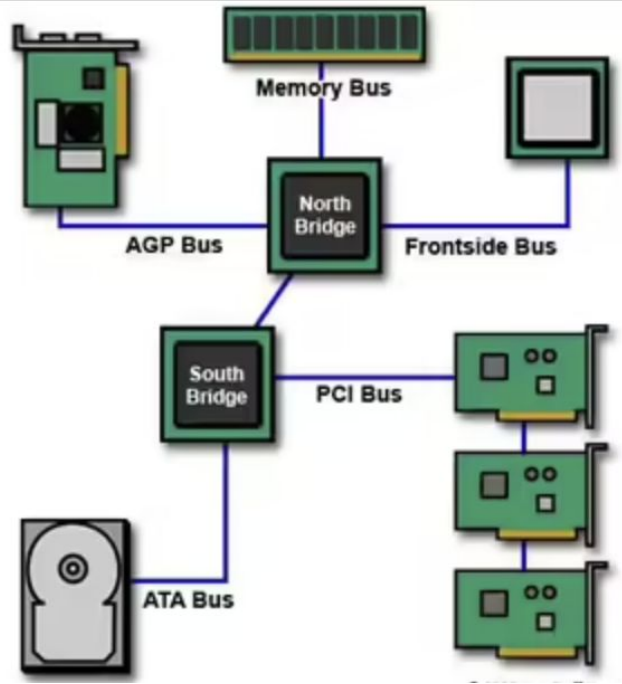


Where are buses used?

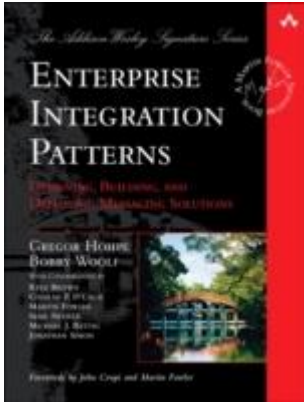
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# Where are buses used?

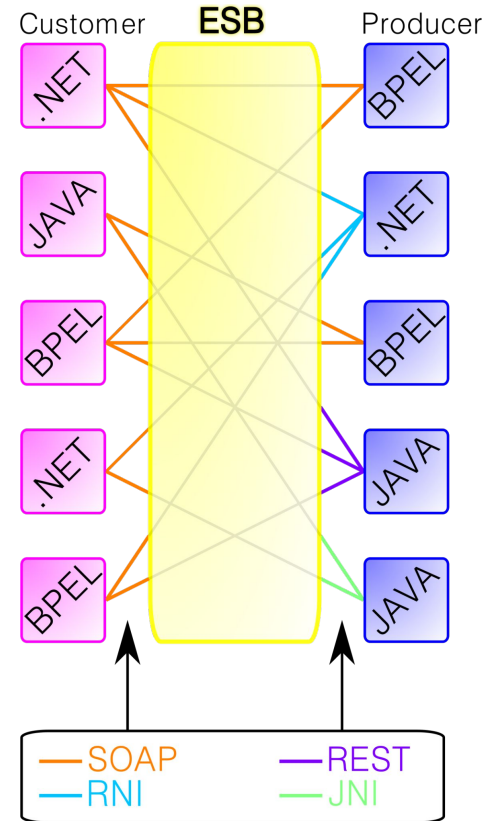


# Where are buses used?



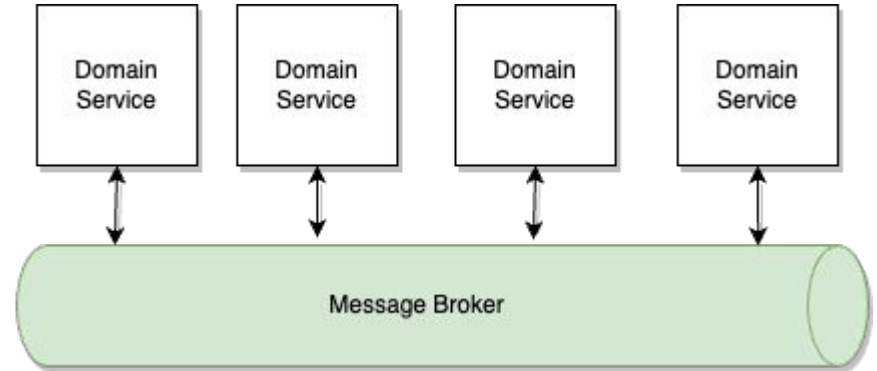
# Where are buses used?

# SOA



Where are buses used?

## DDD / Microservices



Is it an antipattern?

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Is it an anti-pattern?

*Everything is an anti-pattern when  
abused or used inappropriately.*

# Is it an anti-pattern?

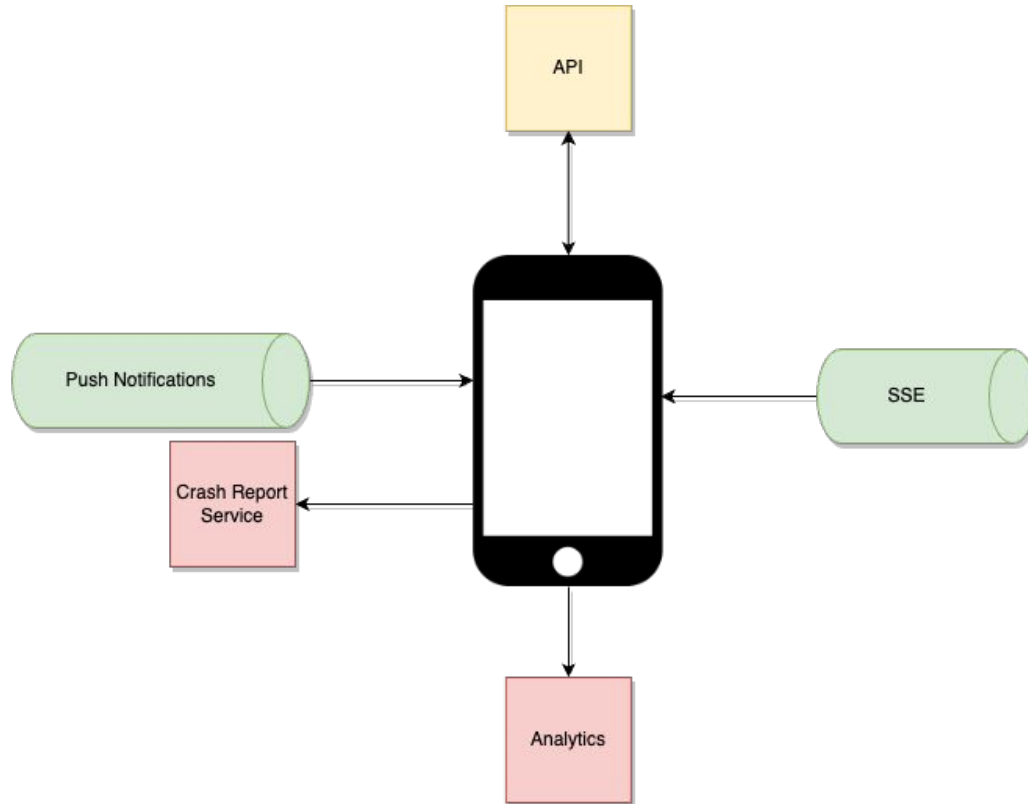
- Nested events
- Treating Producers Like Synchronous Getters
- Hide explicit coupling
- Orchestration

# Mobile Interactions

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# Mobile Interactions

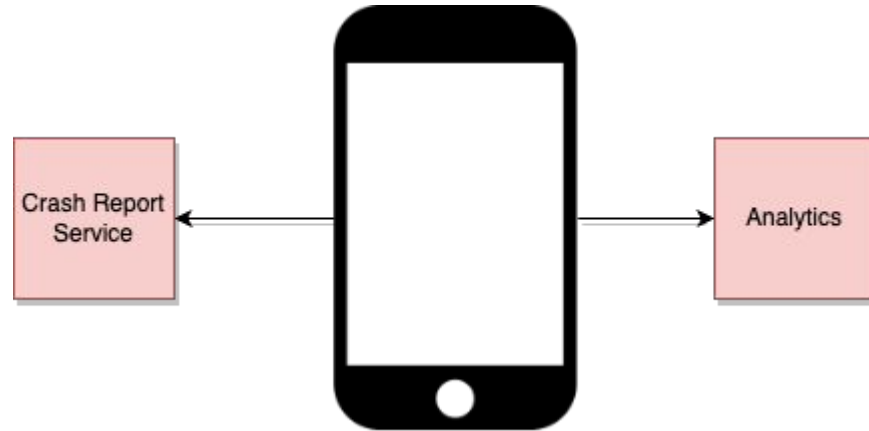


# Candidates

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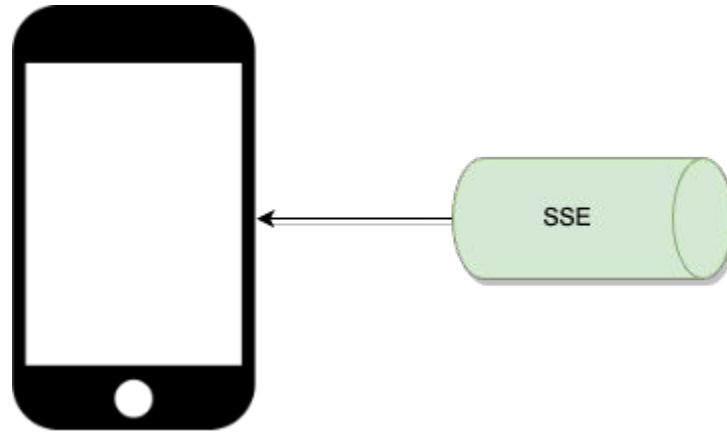
# Candidates

*Fire and forget*



# Candidates

*Incoming*



The library

# The library



**Marco Jakob**  
marcojakob

## event\_bus 2.0.0

Published 18 months ago • [jakobservices.ch](#) Null safety

[SDK](#) [DART](#) [FLUTTER](#) [PLATFORM](#) [ANDROID](#) [IOS](#) [LINUX](#) [MACOS](#) [WEB](#) [WINDOWS](#)

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[Readme](#) [Changelog](#) [Example](#) [Installing](#) [Versions](#) [Scores](#)

## Event Bus

A simple Event Bus using Dart [Streams](#) for decoupling applications.

stars 682 pub v2.0.0



[https://pub.dev/packages/event\\_bus](https://pub.dev/packages/event_bus)

# The library

- 0 dependencies
- 70 lines of code + comments
- Wrapping a StreamController
- Add your custom StreamController (Rx Dart)

Code example



## Disclaimer #2

- No library dependency (except for 2)
- Used a modified version of the default app
- No proper architectural structure
- Only focus on the how to send and listen to events from the bus
- Tests are included

Should I use it?

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# Pros

- Simplifies the communication between components
- Decouples event senders and receivers
- Avoids complex and error-prone dependencies and life cycle issues
- Makes testing your UI code easier

# Cons

- Adds complexity
- Might need some orchestration
- Hard to debug

Questions?

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