

# Grails Functional Testing issue

Functional tests, generally, are run client-side, meaning they (usually) are run in a different machine/JVM than the actual Grails App (the server).

So injecting/calling a Service from inside a Functional Test (say, to generate Sample Data in the database) is not exactly possible, BUT:

If you run the Functional Tests from the same JVM (pretty much means same Computer), then you can just annotate your tests with `@Integration` and take advantage of Integration's auto-wiring, making injecting a Service into your Functional Test just like doing it in an Integration Test, which is easy as pie.

Example:

```
@Integration
class Musify4FunctionalSpec extends GebSpec{

    def musify4TestToolkitService
```

Yes your test will be annotated (and run) as an Integration Test, but its functionality will not change.

If however running Functional Tests from a different computer/JVM is required, a way to reference & call a dependency (like a Service) is needed.

- In Grails 2 there's a plugin called Remote Control which does that. Further search is needed to figure out how it works/if it works on other Grails versions.
- It is possible to create an extra Controller, send HTTP requests to it and have it call the various methods of the Service.

Requires further search/testing, but seems a little "dirty" at the moment.