

# Overview

## Mock Data Collection

```
graph TD; DC[Data Collection] --> ST((Service Target)); FT[Functional Tests] --> ST; CD[config data] --> ST; ST <--> L4((L4 tcp Proxy)); L4 --> TSRF[time stamped request file]; L4 --> TSRF2[time stamped response file]; L4 <--> RDR[Remote Data Resource];
```

The diagram illustrates the architecture of the L4 tcp Proxy system. At the top, a grey arrow-shaped box labeled "Data Collection" points to a central light blue circle labeled "Service Target". Above the "Service Target" are two light blue rounded rectangles: "Functional Tests" and "config data", both with arrows pointing to the "Service Target". Below the "Service Target" is another light blue circle labeled "L4 tcp Proxy", connected to the "Service Target" by a double-headed vertical arrow. From the "L4 tcp Proxy", three arrows point downwards: one to a grey rounded rectangle labeled "time stamped request file", one to a grey rounded rectangle labeled "time stamped response file", and one to a light blue rounded rectangle labeled "Remote Data Resource". A double-headed arrow also connects the "L4 tcp Proxy" and the "Remote Data Resource".

With data collected from the first process, requests are indexed and responses are *templated* to provide well-formed responses to test requests. Mock data and logic is stored in containers to enable packaging data service-by-service.

Real requests and responses continue to be gathered in the background and compared to mock responses to insure that downstream data changes are captured when they occur.

