

Earthquake Redesign

June 30, 2015

Current Implementation



Duplicated

ProtocolBuffers over raw TCP sock

- Pros:
 - Fast
- Cons:
 - Non-elastic
 - Non-human readable
 - Needs extra proxy

Java Inspector (PBEQHelper)

Earthquake

“Dumb” policy

“Random” policy

Java Inspector (JSONEQHelper)

Ethernet Inspector



Separated

pyearthquake

Some policy plug-ins ..

JSON over HTTP (almost RESTful)

- Pros:
 - Elastic (preferred for app-specific structures, especially ones in Ethernet Inspector)
 - Human readable
 - Existing proxies can be used
- Cons:
 - Slow a bit
 - Needs extra scheme files for validation

libearthquake.so

Planned Implementation

- ✓ Eliminates the duplicated Java Inspector
- ✓ Exposes the optional plug-in interface to traditional Earthquake

