

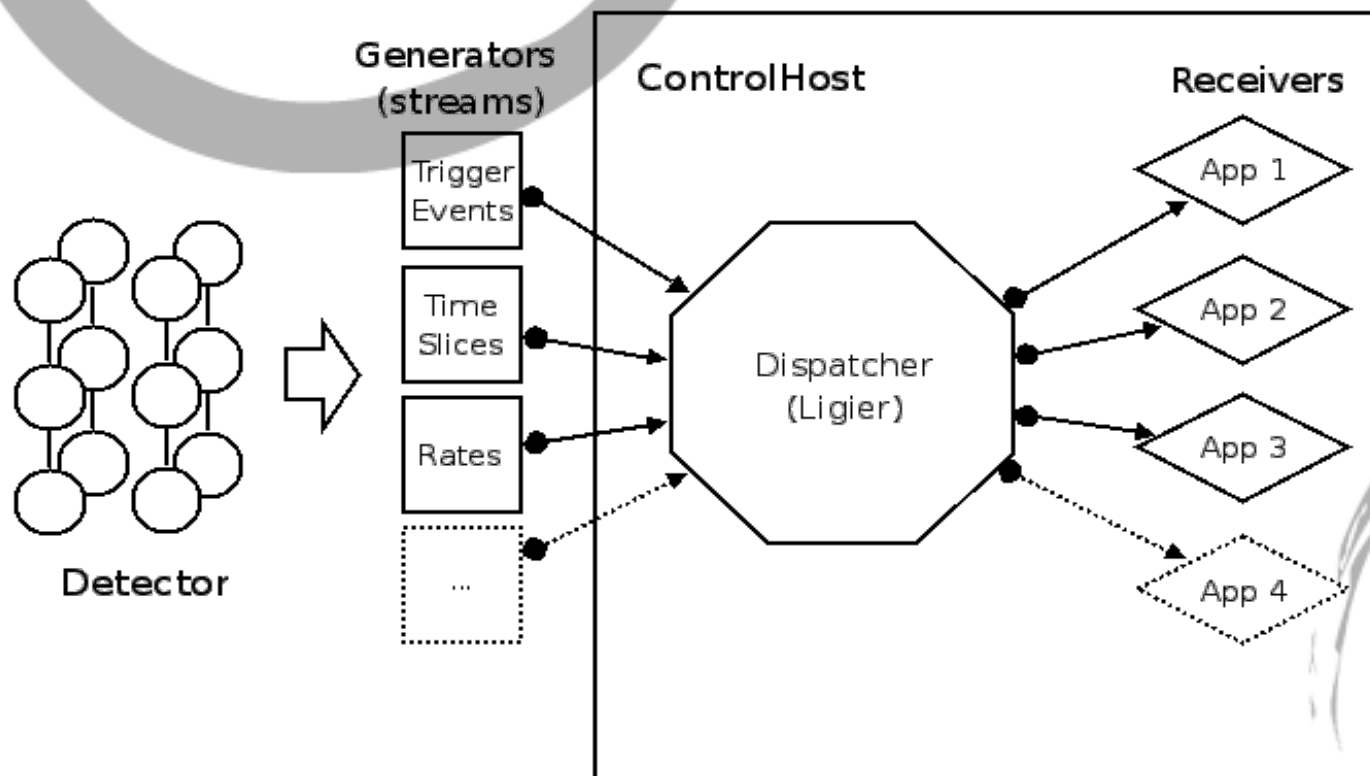
A web based real-time event display

Andrea Sottoriva

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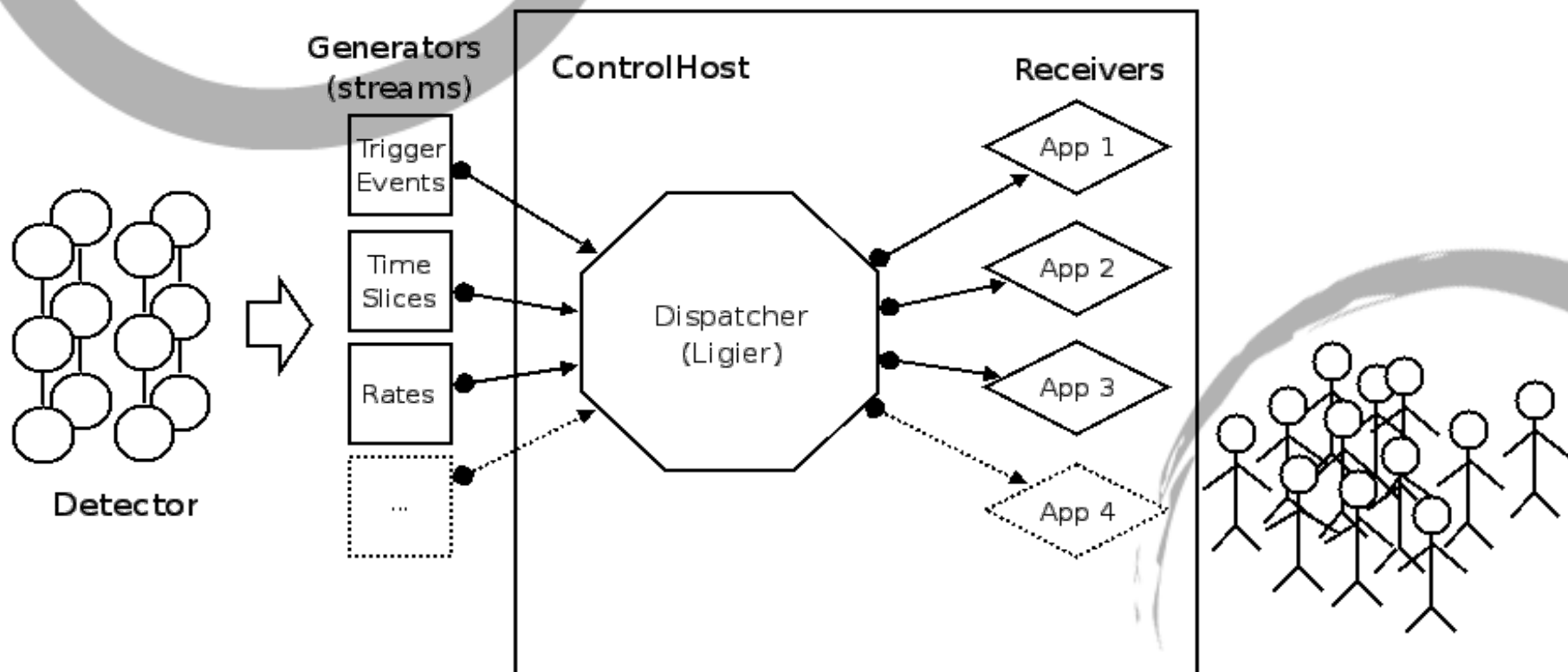
The ControlHost scheme

- The generators produce the data streams
- The dispatcher act as a hub for the streams
- The receivers: obtain the data using the subscription mechanism



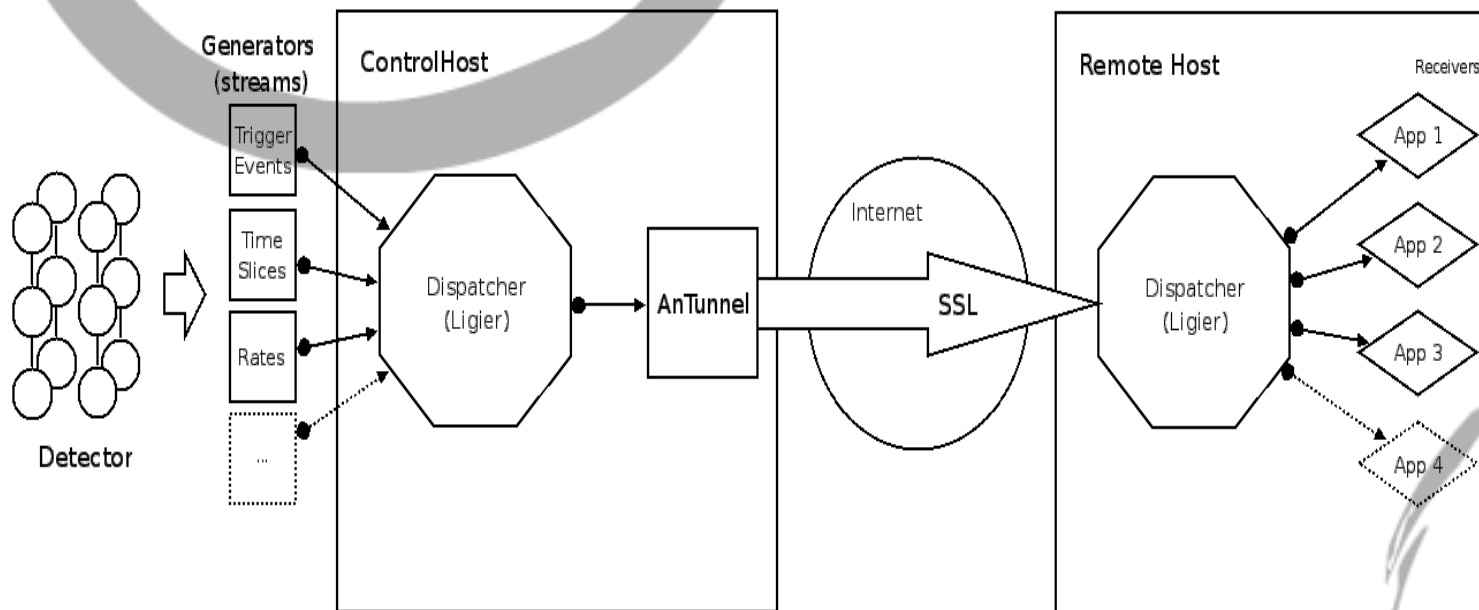
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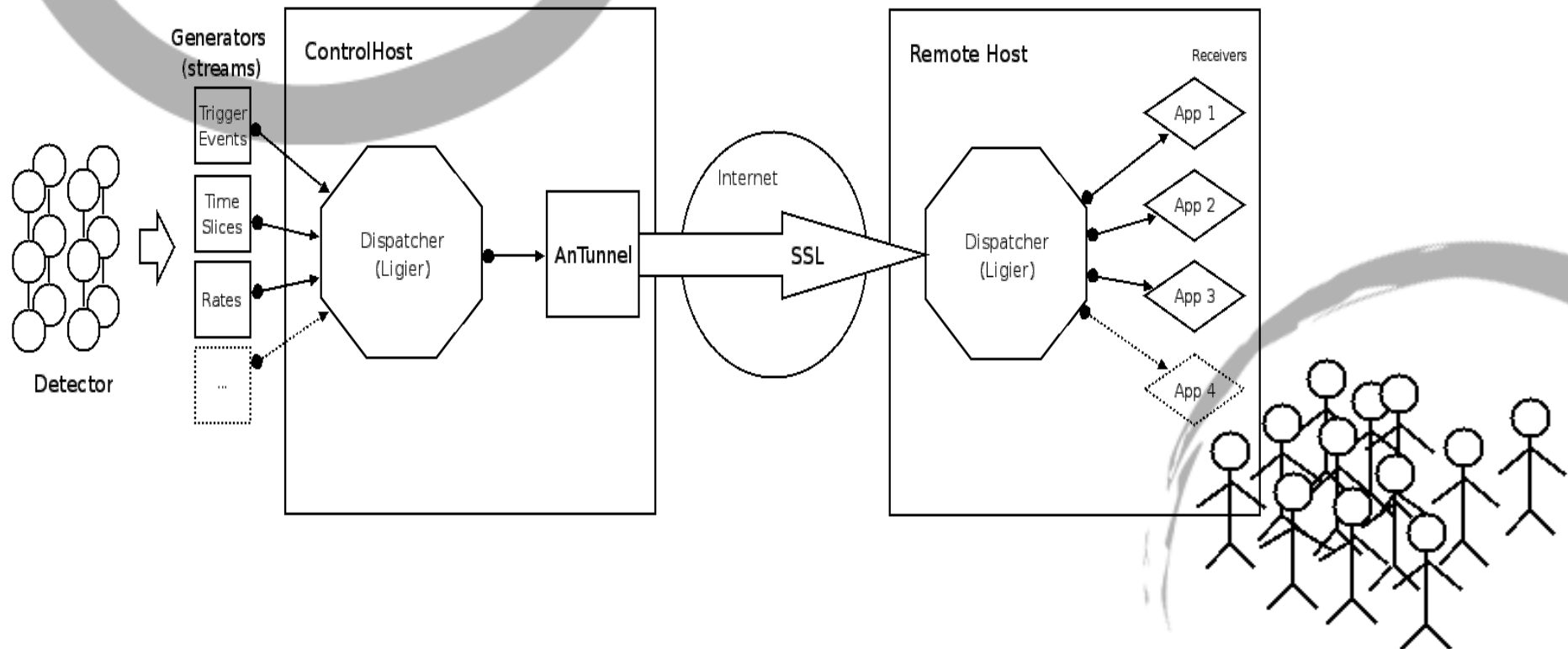
SSH Tunneling

- AnTunnel creates a bridge towards a remote host
- The streams are tunneled over Internet using SSL



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The remote host scenario

- 1 Dispatcher (1 instance of Ligier)
- Receives 1 copy of the streams
- Several receivers can collect data
- The system appears to the applications as in the shore station

Tunneling advantages

- Data generation and consumption are decoupled
- Security is improved: no user needs to login directly in the shore station
- An eventual crash of the dispatcher in the remote host has no effect on data tacking
- The architecture permits easy concatenation

Tunneling performances

- AnTunnel has been running on *polaris* since the 18th of December
- The CPU consumption remains $\leq 1\%$
- The memory consumption is stable at 0.3%

The real-time event display with the tunnel

- The TriggerEvent stream was tunneled to `tajuna.nikhef.nl`
- The online Ronald/Jurgen event display has been modified to take snapshots continuously
- A pool of about 50 shots is maintained
- A PHP script publish in the web the newest shot
- If no new shots are available, a random one is chosen

A large, thick, grey brushstroke circle that is partially completed, with a gap on the right side. It is positioned on the left side of the slide.

What's going on now?

<http://www.nikhef.nl/~sottoriv/display>

A thick, grey brushstroke arc that is partially completed, with a gap on the left side. It is positioned on the bottom right side of the slide.

Future improvements

- Tunneling of also other streams (Timeslices, Rates, ...)
- Eventual concatenation towards other destinations besides NIKHEF