Matrix.org & Bridge tests

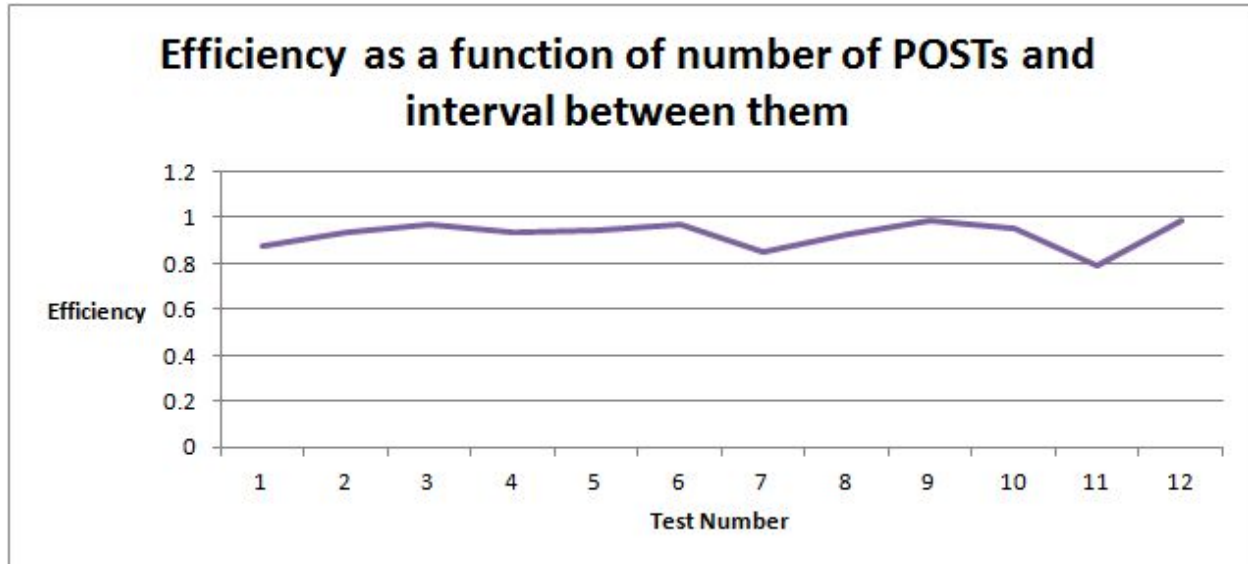Our test consists of simple .exe file:

```
./Exe.exe <uri> <number of requests> <interval between requests in milliseconds>
```

This executable POSTs to the SPM Mock events of car check-ins/outs.

Results and conclusions

Test #	Number of POSTs	Interval (in ms)	Timer (in seconds)
1	1	1000	1.14
2	2	1000	2.14
3	5	1000	5.14
4	10	1000	10.67
5	5	500	2.64
6	10	500	5.14
7	5	200	1.18
8	10	200	2.15
9	20	500	10.16
10	50	500	26.18
11	100	500	63.37
12	500	1000	507.23

Efficiency as a function of number of POSTs and interval between them

$$Efficiency = \frac{num\ of\ POSTs}{timer} * \frac{interval}{1000}$$

Conclusions:

1. The efficiency is high and stable.
2. There is a minor delay on the first POST. Probably because of a cooldown.
3. After some period of time, the bridges return "Too many requests" - this limitation comes from Matrix.org homeserver.
   a. Configure in the Matrix.org `homeserver.yaml` the field:
      `rc_messages_per_second`