

## QasTor

An anonymous and decentralized network, optimized for streaming

Tor is the most famous network available for anonymous browsing. But it suffers many limitations that prevents it being widely used : latency, ping and lack of resiliency. It also not adapted for one-to-many communications.

### DESCRIPTION\*

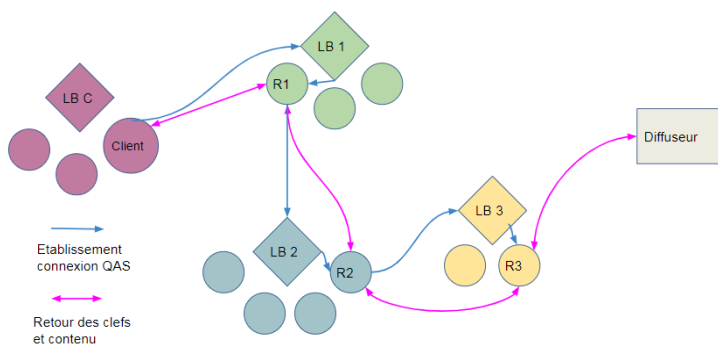
**QasTor** allows anonymous communication with a server/a website. It uses ABE, a flexible encryption system that allows one-to-many communication, marking it particularly applicable to streaming applications (unlike Tor from which it is inspired).

Thanks to an innovative architecture based on load balancer groups, the network reduces the connection establishing time with only key required to send packets to a relay.

Load balancing enables reduced ping by choosing the closest group node in the network.

Resiliency is improved by having groups ; maintaining the connection does not fall back on a single node.

It is also less sensible to flood attacks because it is made to limit the overhead cost of bandwidth generated by several connections to a same content



### Progress status

- The protocol is formally defined
- A digital mock-up has been set-up
- The prototype is to be tested on a wider network

### COMPETITIVE ADVANTAGES

- One-to-many communications (streaming)
- Reduced latency / ping
- Strong resiliency
- Robustness to flood attacks

### APPLICATIONS

- Anonymous communications with streaming capabilities
- Watching live videos, anonymously
- Journalism
- Defense

### INTELLECTUAL PROPERTY

- Patent pending

### DEVELOPMENT STAGE

- Experimental proof of concept



### LABORATORY



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