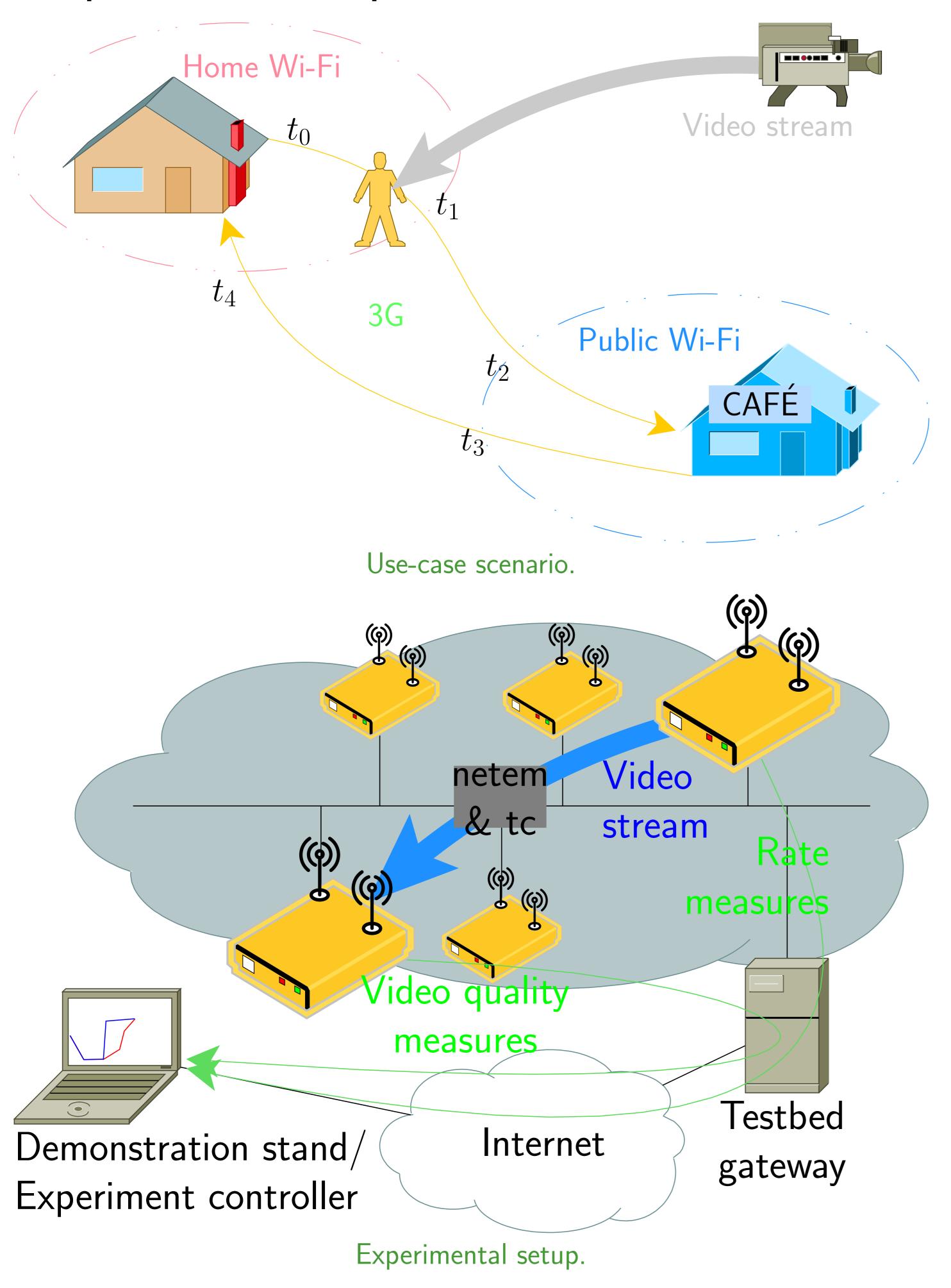
## Mobile Multimedia Streaming Improvements with Freeze-DCCP

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Reproducible experimental evaluation facilitated by experimental framework



## Mobility-aware Transport and **Experimental Testbed**

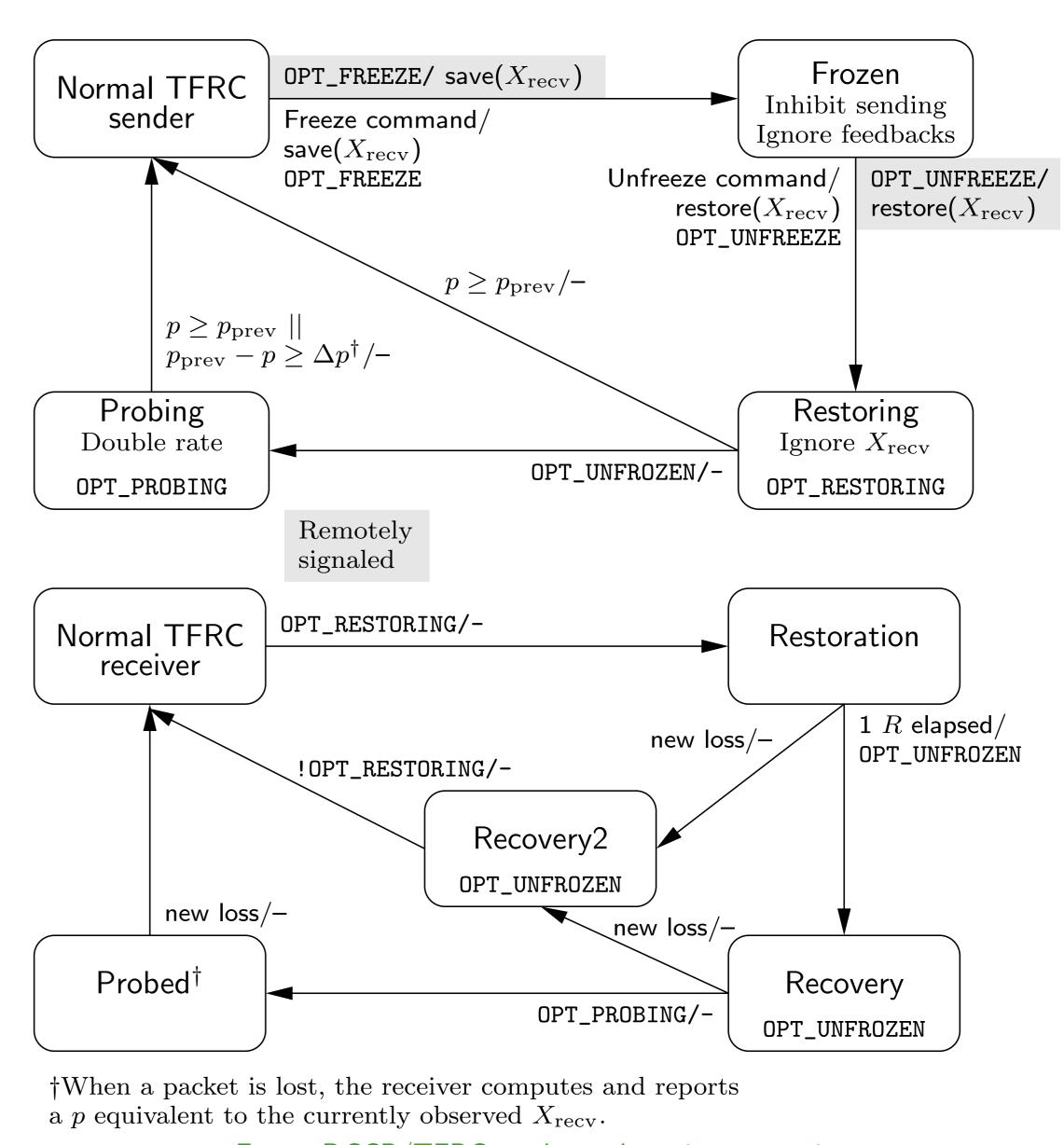
- Freeze-DCCP extends TFRC support mobility-induced disconnections without unecessary rate reduction
- Experiments run on the OMFbased Norbit testbed
- Specific bandwidths and delays are emulated using Linux' netem and tc
- Results are collected using the OML library for live display and later analysis

## Mobile Video Streaming

- 1. At home, a user starts watching a video over their home Wi-Fi
- 2. They go to the coffee shop and switch to 3G connectivity
- 3. The coffee shop offers a public Wi-Fi access point
- 4. On the way home, the 3G connection is used again
- 5. Back at home, the stream switches back to Wi-Fi

## **Projects Contributions**

- Freeze-DCCP kernel implementation for Linux completed
- OMF Testbed Management Framework 5.3 released for reproducible experiments and testbed federation
- OML client library 2.4 for instrumentation of experimental and reporting tools



Freeze-DCCP/TFRC sender and receiver operation.

From imagination to impact