

METROSEC

Metrology for Securing QoS



LAAS-CNRS
(Project leader)



ENS Lyon



LIP6



LIAFA



ESSI



IUT GTR
Mont-de-Marsan

Problematic

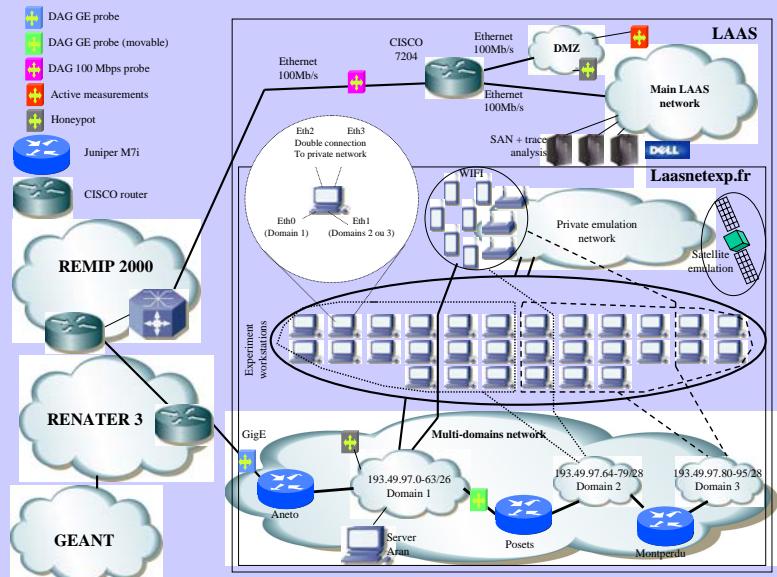
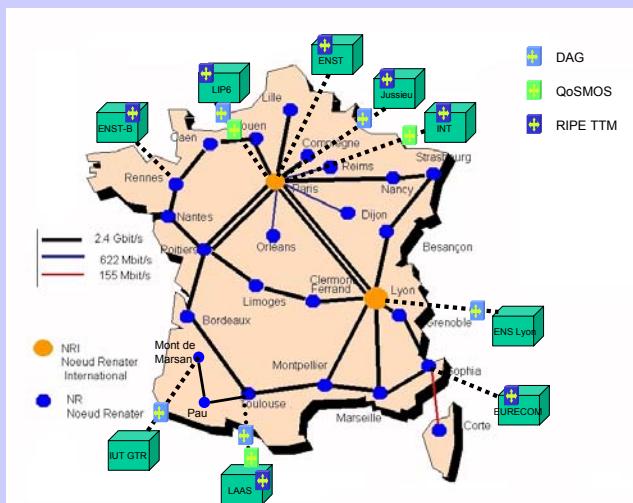
Anomalies
(traffic variability,
disruptions, ...)

due to

- Errors
- Failures
- Flash crowds
- DoS and DDoS attacks

Network
performance
and QoS ↓

Experimental measurement and monitoring platform



French measurement and monitoring platform

Target of attacks during experiments

Objectives

Anomaly
detection

- Traffic monitoring
→ disruptions in traffic model
- QoS monitoring
→ disruptions detection
- Network topology monitoring
→ Large change detection
- Traffic matrices monitoring
→ differences with estimates



New measurement
Based architectures
And protocols for
Improving QoS
robustness

New measurement
based IDS,
backtracking, ...