

Benchmarking of Elastic Cellular Core

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Background & Challenges

- Constraints of physical middleboxes
- Shift to an elastic core
- Studied in class > "KLIEN"
- Installation
- Challenges
 - Poor Documentation of OAI
 - Extensive Configuration required
 - Unstable Emulation (frequent crashes)

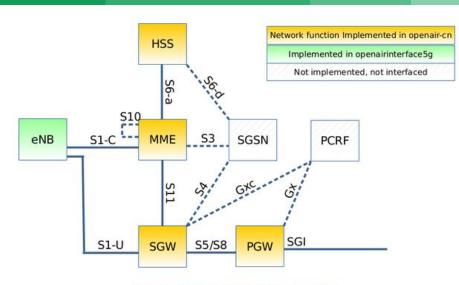
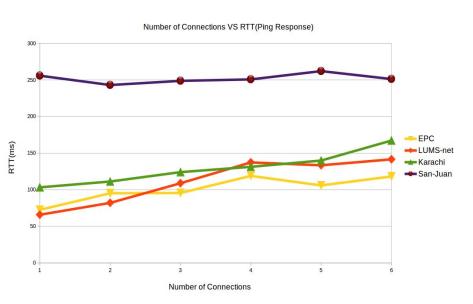
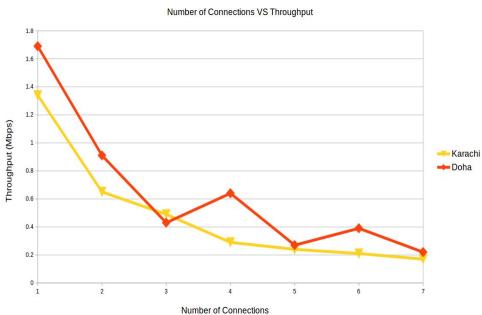


Figure 1 EURECOM core network entities overview



Results







Conclusion

- Need for more rigorous examination.
- Results show that increasing processes degrades performance.
- EPC is Latency-friendly but throughput decreases exponentially in multiple bandwidth-hungry connections, unfairly.
- Constraints of OAI (emulation tool), significant configuration needed.