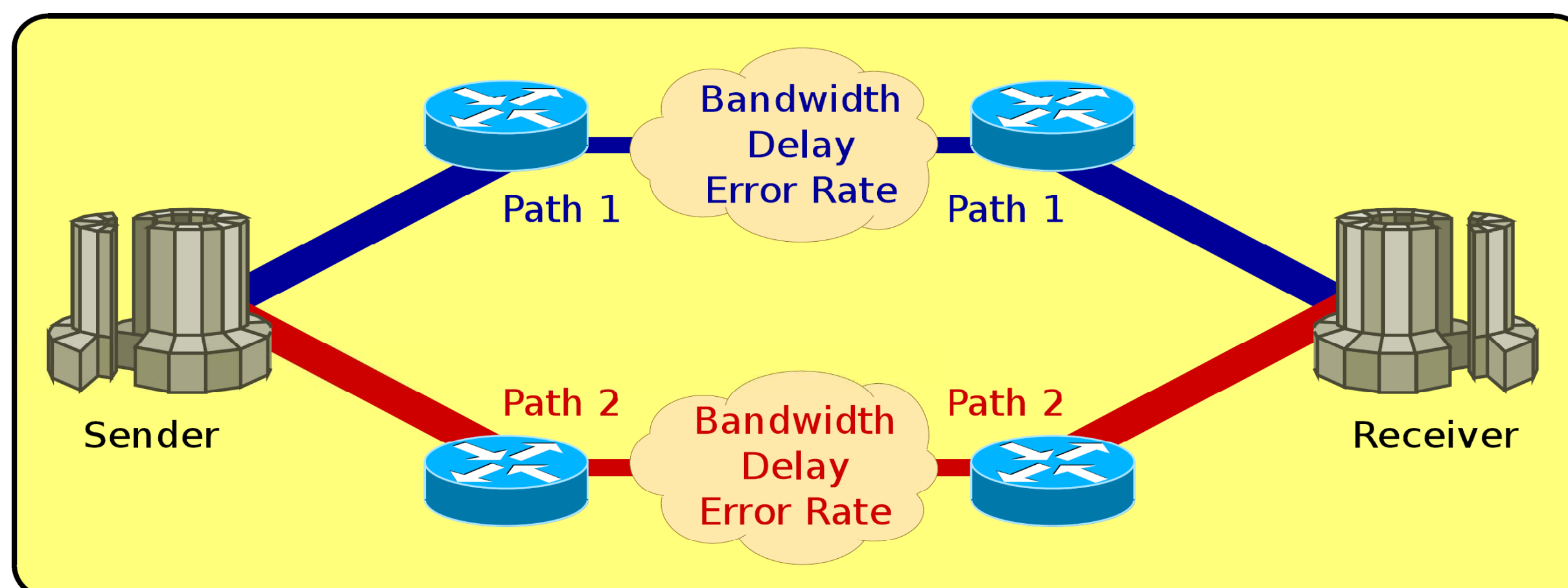


Advantages of Multi-Path Transport

- ▶ Increase fault tolerance
- ▶ Improve resilience
- ▶ Increase bandwidth
- ▶ Increase efficiency
- ▶ Supplier diversity of networks

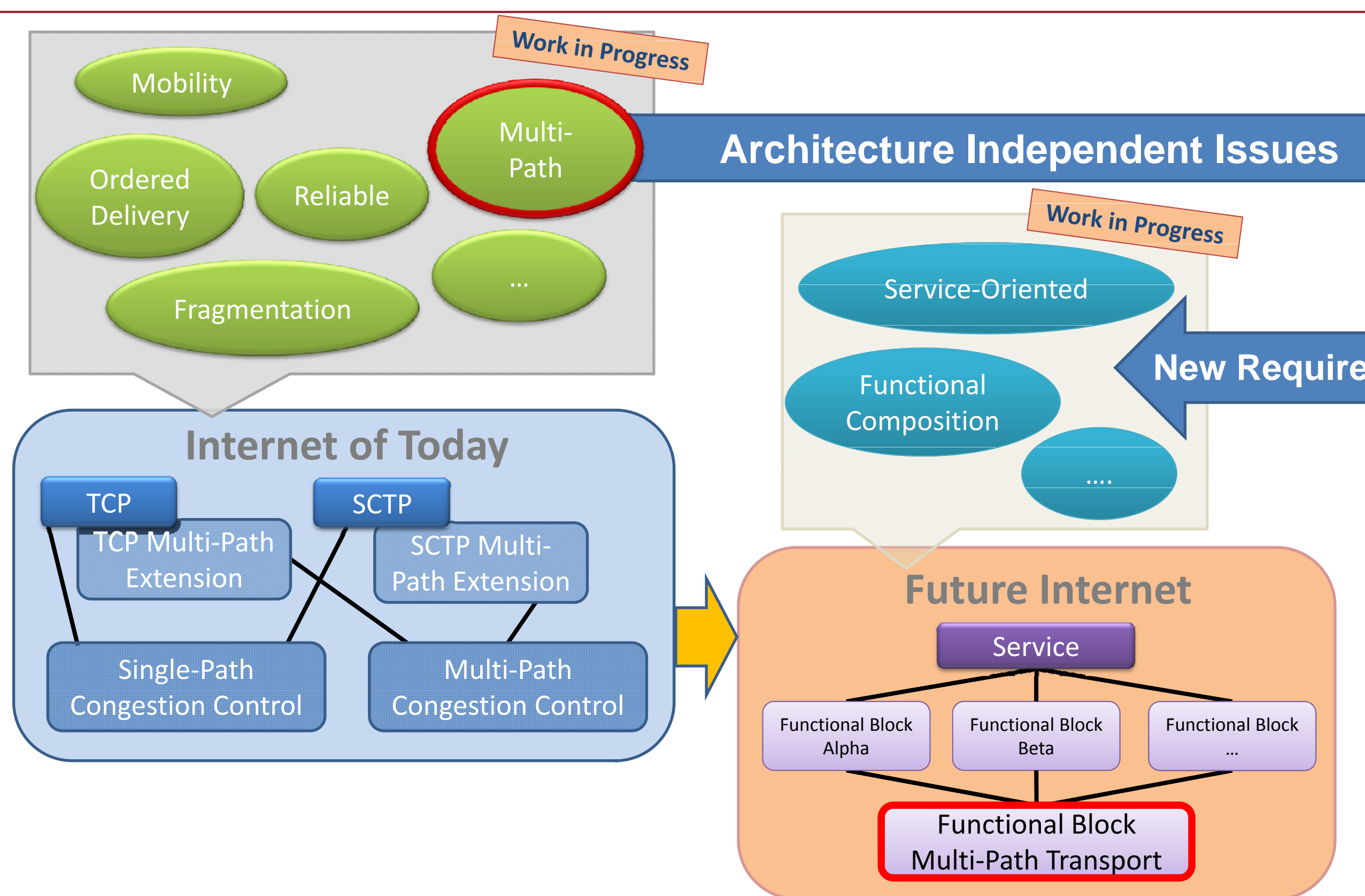


Ultimate Goal for the Future Internet

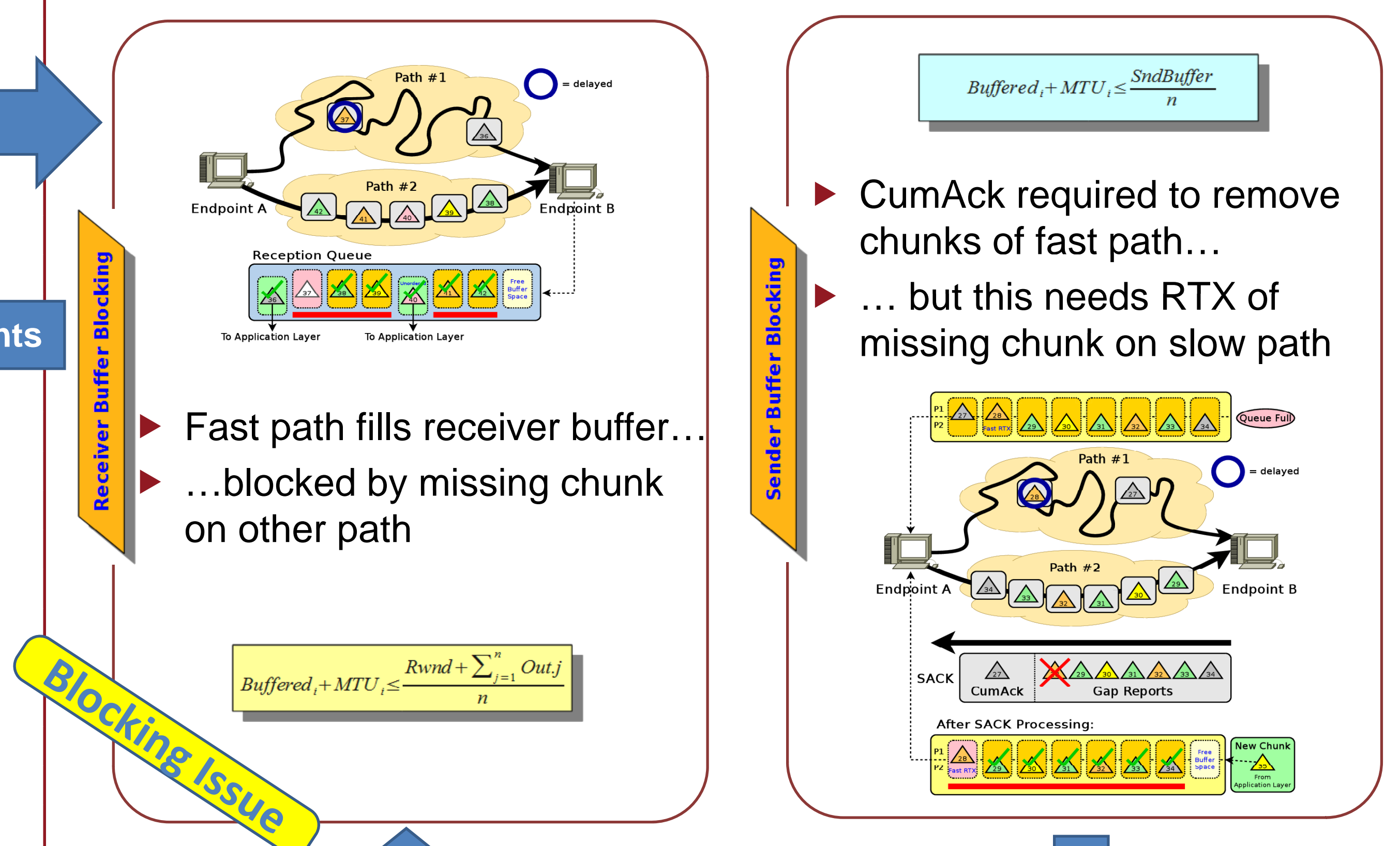
Provide full featured
Multi-Path Transport for
Network Services

(Based on Functional Composition Approach)

Solution Approach



"Buffer Blocking" as Example

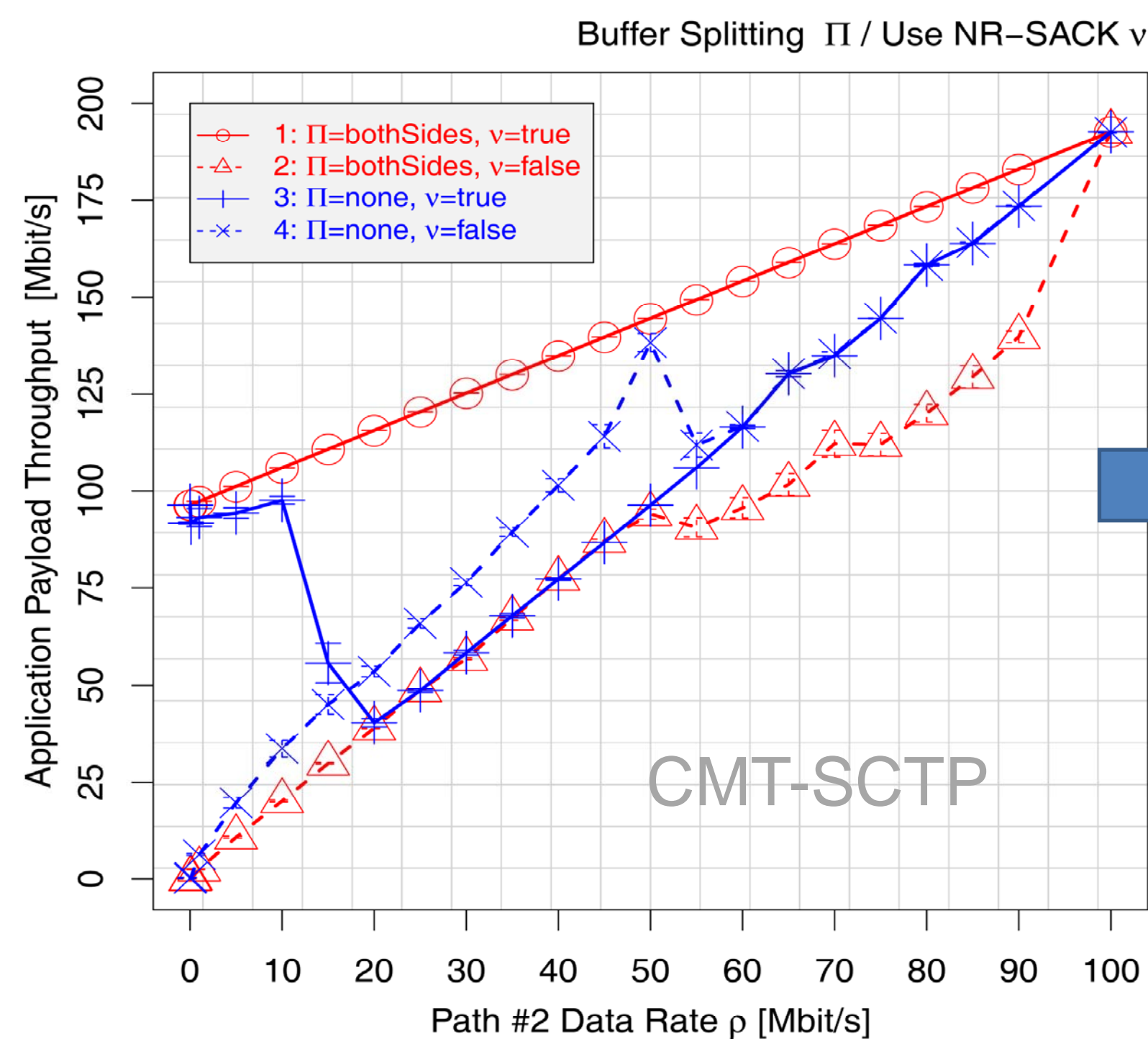


Results of Evaluation applied to new Architectures

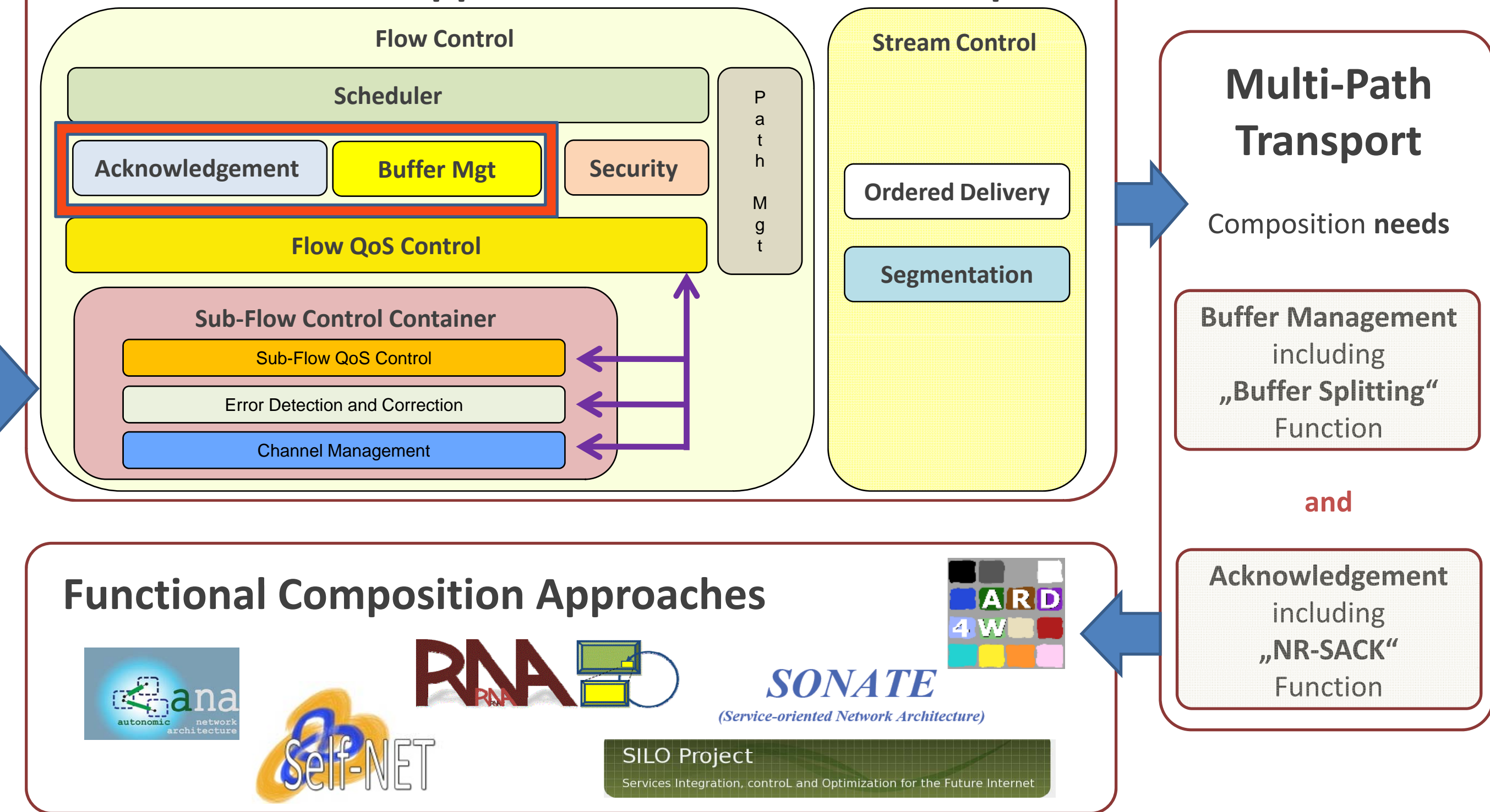
Combination of Buffer Splitting and NR-SACK needed!

Simulation Setup

- ▶ OMNeT++/INET and SimProcTC
- ▶ Own CMT-SCTP and CMT/RP-SCTP models
- ▶ Path #1: 100 Mbit/s, 1ms delay, loss-free
- ▶ Path #2: variable QoS parameters
- ▶ Saturated sender, MTU-sized packets by utilizing



Functional Block Approach for Multi-Path Transport



Functional Composition Approaches

