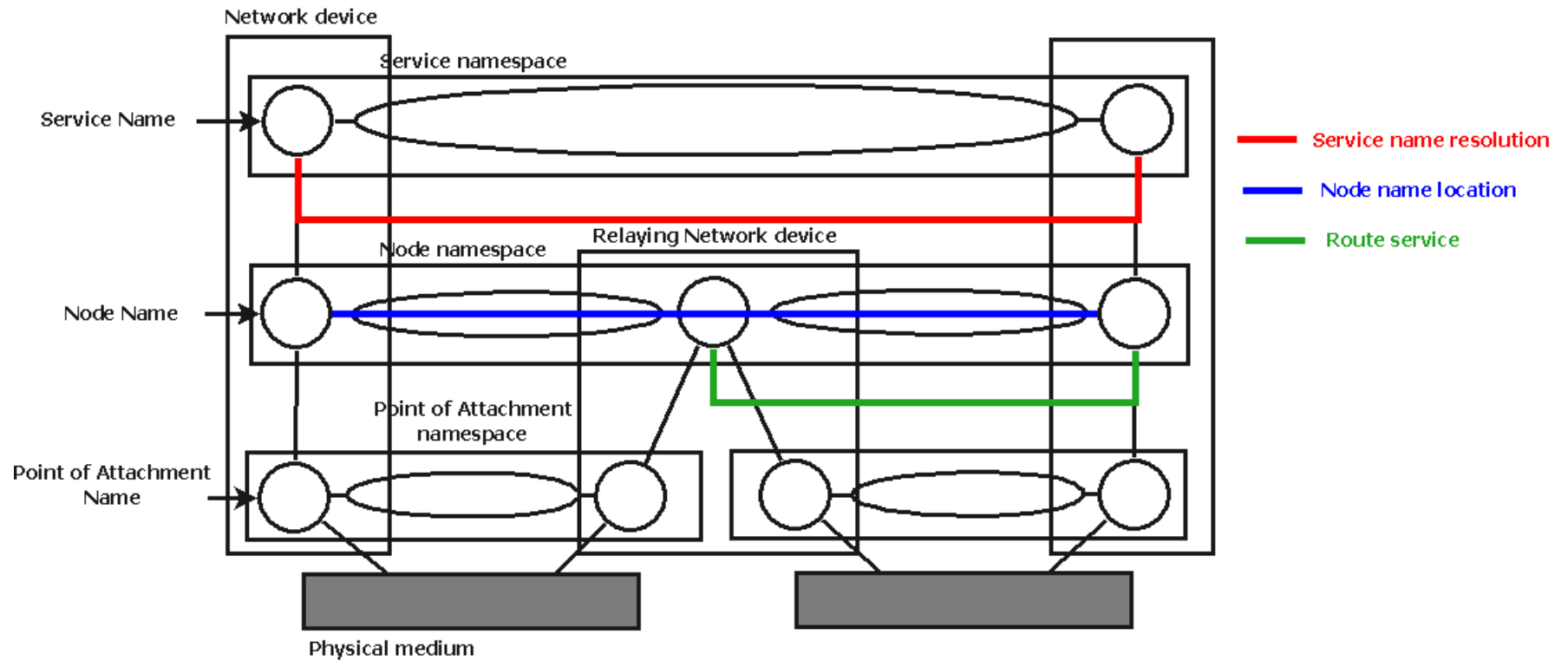


Seamless Mobility in Data Aware Networks (DAN/ICN)

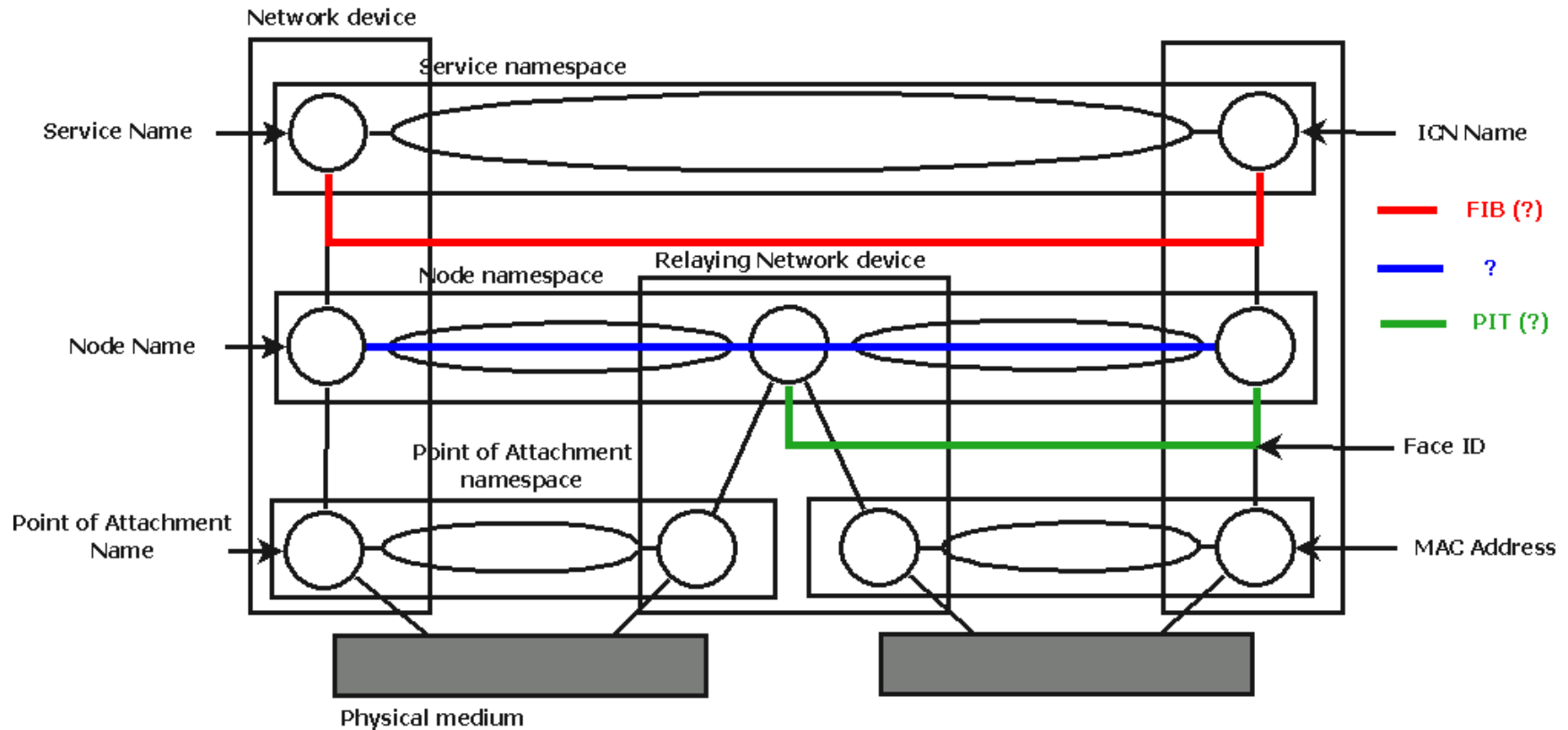
September 29, 2016
ICNRG Interim meeting

Waseda University
Sato Laboratory
Jairo Lopez

RFC 1498 – John Saltzer



Mapping RFC 1498 to ICN



Named node namespace for ICN

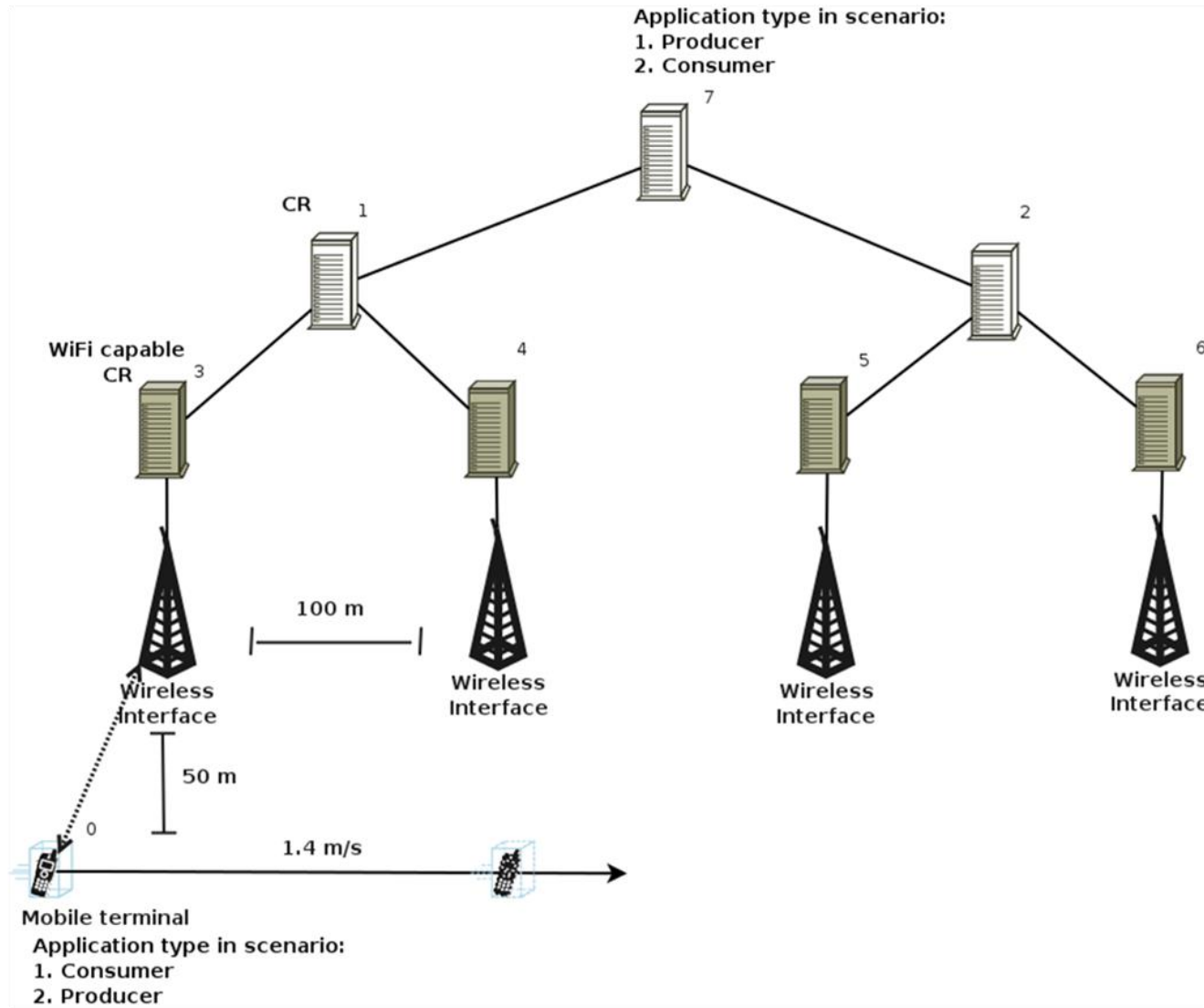
- We create an independent namespace for nodes
- The names we create are called 3N names
- Create Named Node Signature Table (NNST) and aggregating 3N names to Pending Interest Table (PIT)
 - Completes Route mapping (3N name to PoA name)
- Create Named Node Pair Table (NNPT)

2016-09-29 **Completes Node name location mapping (3N name to 3N name)**

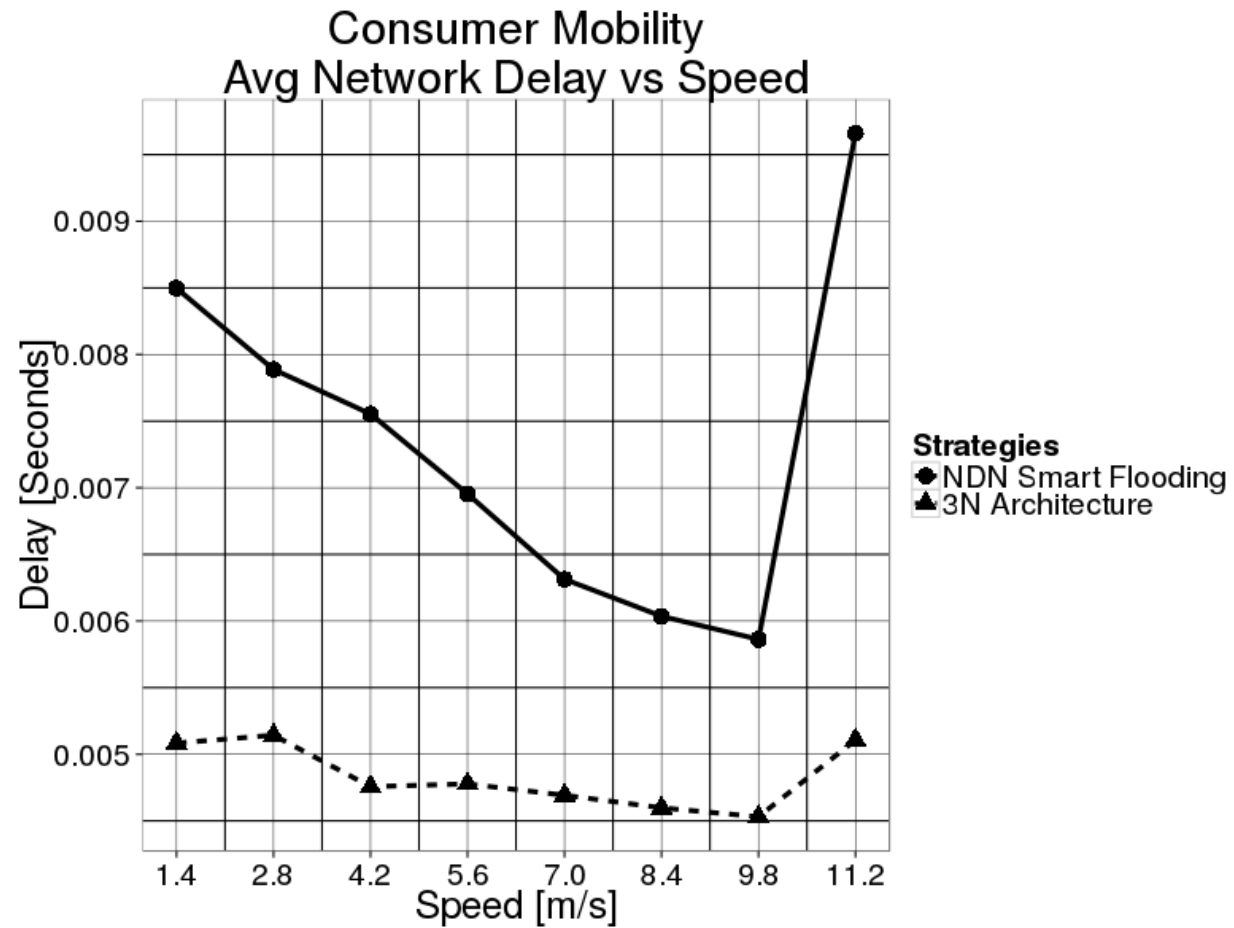
Simulator

- Built a simple simulator using ns3
- Completely open source
- <https://bitbucket.org/nnsimdev/nnsim/>

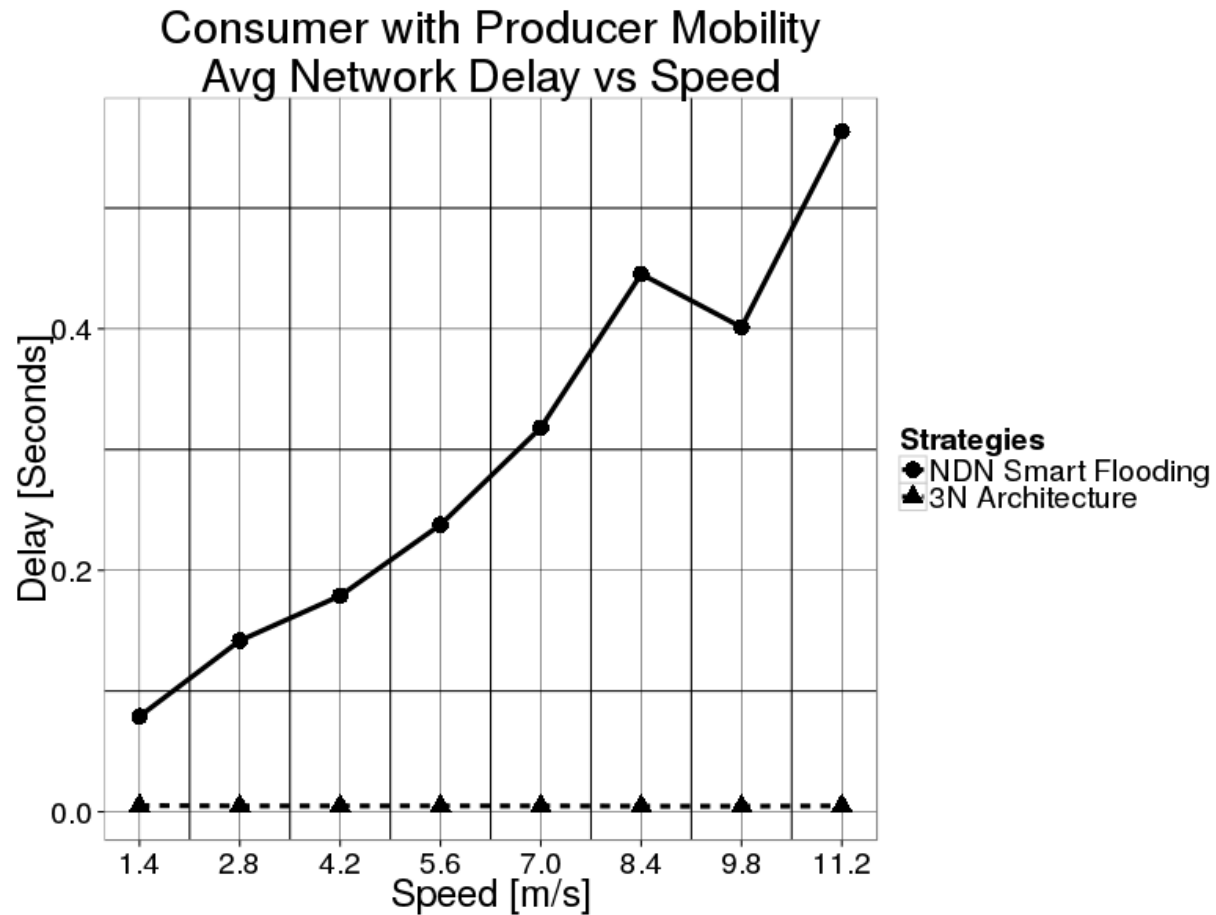
Simulation



Results



Results



Results

- The use of complete a Node name location and Route mappings along with 3 independent namespaces brings us many benefits
 - Improves even cases where a normal ICN is strongest
 - Makes producer mobility completely viable
 - Improves network efficiency since it doesn't require excessive flooding
 - Leaves the current ICN namespace untouched