

# Measurement of BGP FIB installation

IETF89, London

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# Problem statement

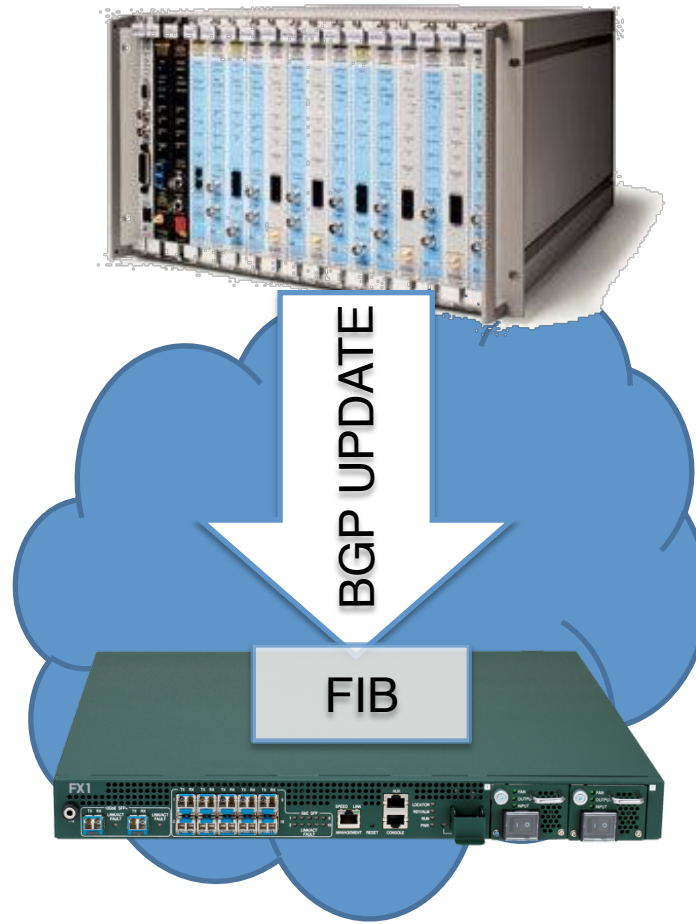
- Unclear the performance and scalability of BGP.
  - How long is the BGP convergence time?
  - How many routes can be updated in certain period of time?

I-D.matsushima-stateless-uplane-vepc

<http://www.ietf.org/proceedings/87/slides/slides-87-dmm-5.pdf>

# Test environment

- DUT: FITELnet FX1
- BGP Update from Spirent AX/4000

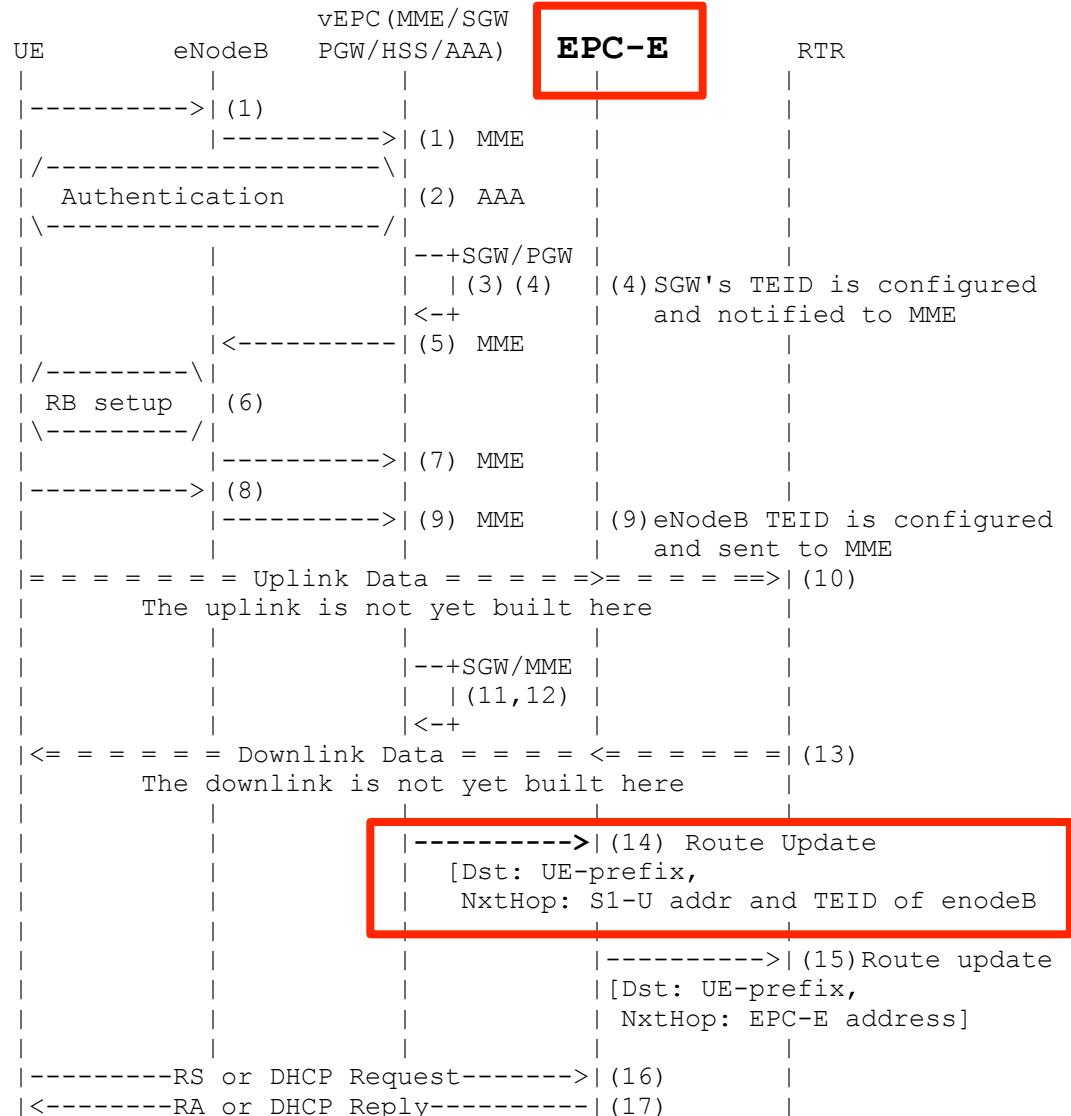


# Scope of the measurement

- Measurement of BGP FIB installation time at EPC-E.

- Convergence time from receiving BGP UPDATE to completing FIB installation

- How many routes can be updated within stable convergence time



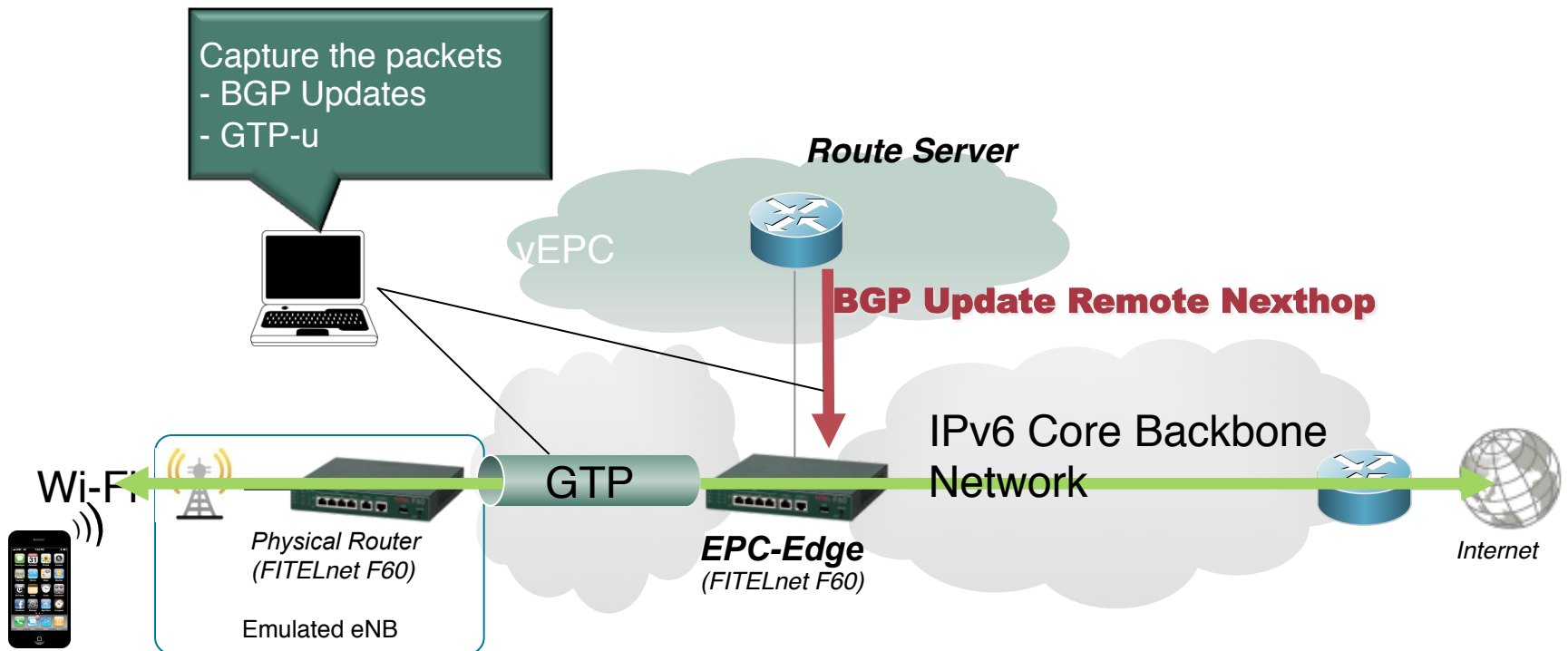
# Result

Routes per single BGP UPDATE	Max FIB installation time (msec)	Max Routing Update Capability (routes/sec)
1	4.457	224
8	5.460	1465
16	7.092	2256
32	9.646	3317
64	14.596	4384
128	23.263	5502
256	39.673	6452

# Stateless U-plane vEPC Demonstration

Wed, Mar.5 17:00- @Tower 3<sup>rd</sup> floor Meeting Room 1-4

**BGP Remote Nexthop working on physical router in the vEPC system.**



Question and more information

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