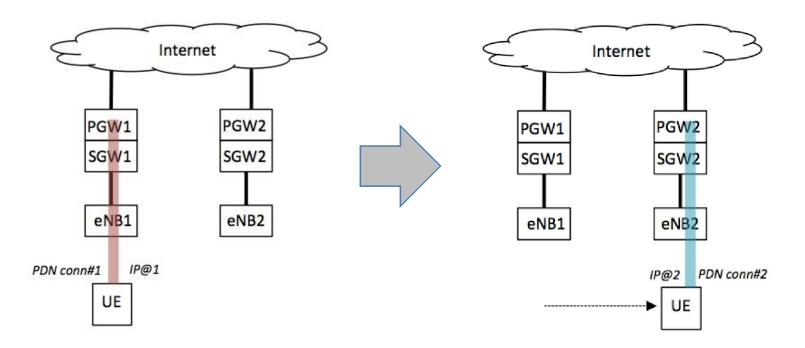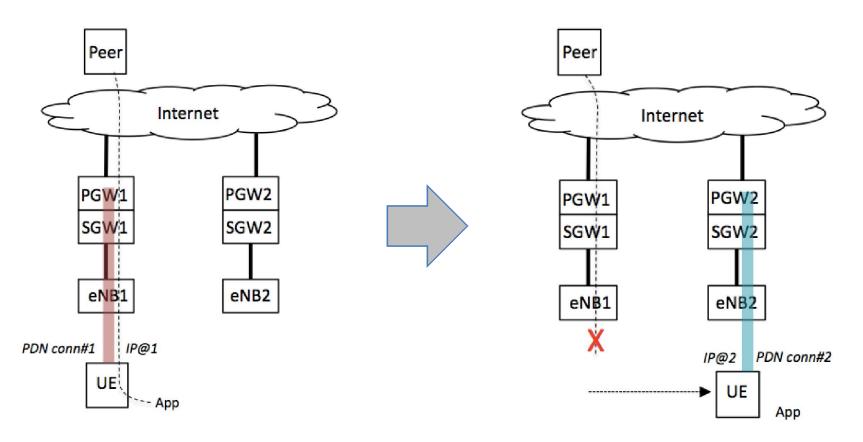# 3GPP CSIPTO

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IETF 90

SIPTO

- Selected IP Traffic Offload
- R10 feature allows PGW change to streamline PDN (Packet Data Network) connections.
- SIPTO@LN (Local Network) moves GW towards the edge, it can even be co-located with base station
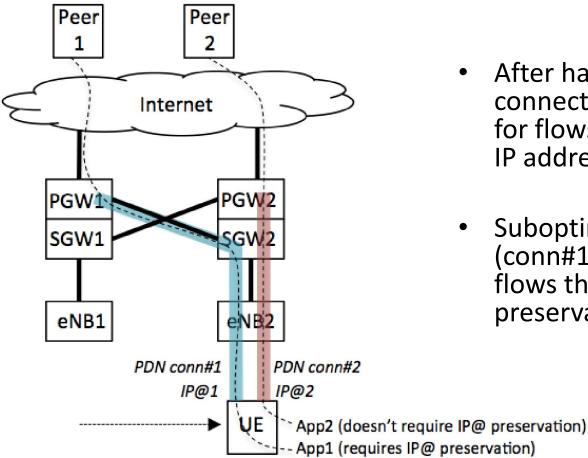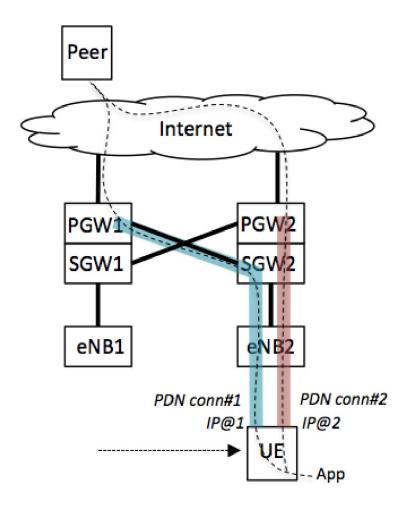 → Flat IP

CSIPTO

- Issue: Service disruption
- Solution : Network and UE coordinating GW changes
- CSIPTO: Coordinated SIPTO, a R13 SA1 Work Item
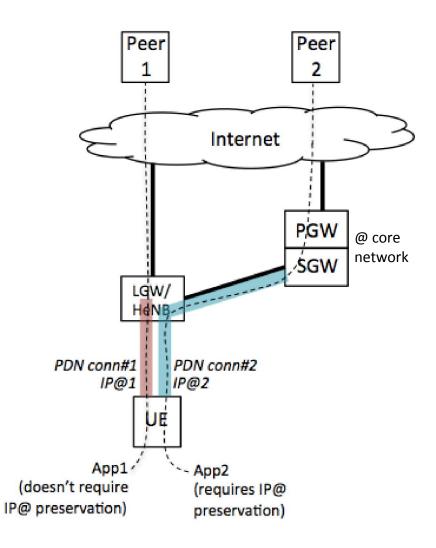
Use Case 1

- After handover, optimal PDN connection (conn#2) setup for flows that do not require IP address preservation

- Suboptimal PDN connection (conn#1) maintained until flows that require IP address preservation terminate
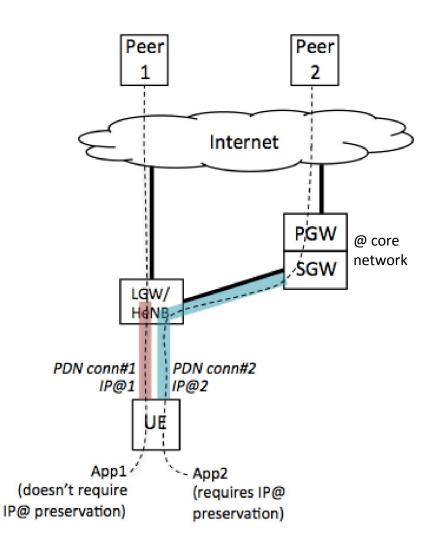
Use Case 1

- Allows L4+ mobility protocols (e.g., MPTCP, SIP) to perform soft handover

Use Case 2

- 2 PDN connections are setup, one with IP address preservation, one without.

- Each flow bound to a connection according to its IP address preservation need.

Use Case 3

- By default, PDN connection with LGW is setup. (conn#1)

- Additional PDN connection with PGW (conn#2) setup and used only for flows that need IP address preservation
  → On demand

- PDN connection with PGW removed after flows using it terminate.

Status

- SA1 (Services) study phase completed
  - Use cases and requirements:
    - http://www.3gpp.org/DynaReport/22828.htm
- SA1 normative phase initiated (May 2014)
  - Work item description:
    - http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_64/Docs/SP-140235.zip
  - Target completion: Aug 2014
- Next: SA2 (Architecture)

Questions and comments?