Analysis of the Port Control Protocol in Mobile Networks

draft-chen-pcp-mobile-deployment-04 IETF 87- Berlin, July 2013

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Status

 The work had been presented at IETF#83, 84, 85, 86 and the interim meeting

 Authors had been encouraged to further improve the draft

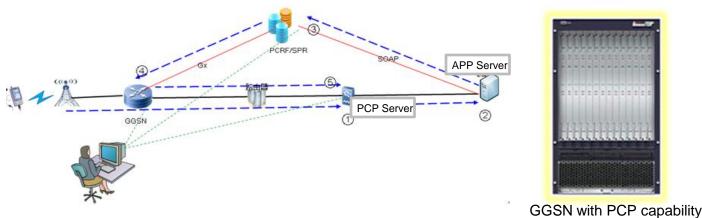
 The contents are stable after the detailed reviews from Reinaldo Penno and Tirumaleswar Reddy

Motivation

- Encourages devices with low battery resources to embed a lacksquare**PCP** client
- Advocate PCP discussions in a mobile context (We are glad to see more mobile relevant topics proposed)
- Harmonizes considerations towards PCP designers/ implementers

PCP-Mobile Prototype

• A PCP-Mobile prototype has been implemented to optimize the keepalives messages in our lab





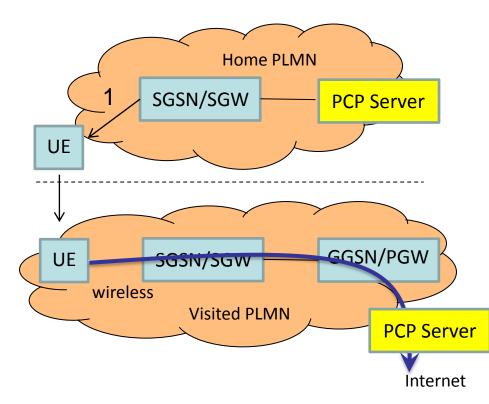
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Updates

- Refine the statements on each sections
- The topics the draft covered
 - Motivation Statements
 - Deployment architecture
 - PCP Server Discovery
 - MN and multi-homing
 - Retransmission Consideration
 - Unsolicited Messages Delivery
 - SIPTO Architecture
 - Authentication Consideration

Updates: SIPTO(1/2)

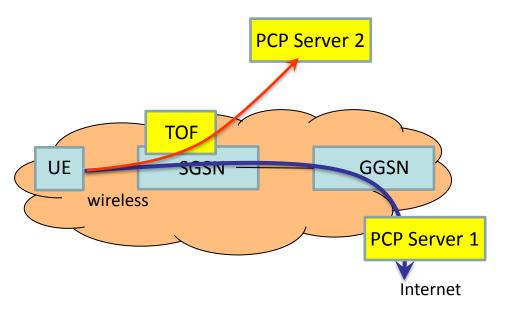
Case 1: The UE IP address is renumbered



- 1. Home SGSN/SGW deactivate UE
- PCP client initiates the messages to delete the mappings on the old PCP server
- 3. PCP client discover the new PCP server
- 4. PCP client install new mapping on the new PCP server

Updates: SIPTO(2/2)

Case 2: The UE IP address is remained



- 1. PCP proxy with advanced functions is required
- 2. PCP proxy should parse Radio Access Bearer Identifier (RAB-ID) to determine each flow

Next Step

• Adopted it as a WG item?