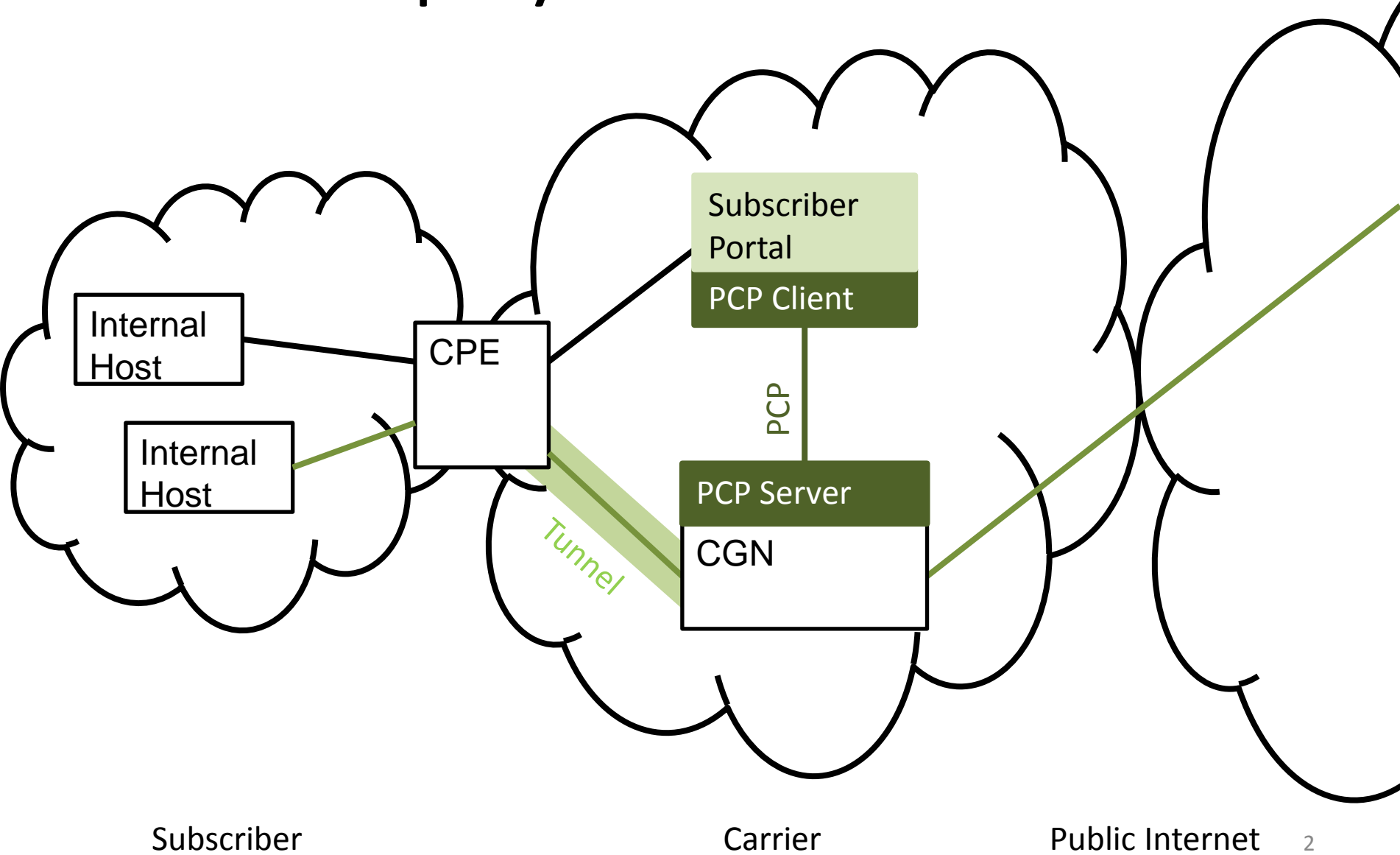# PCP Tunnel-ID Option

PCP WG Virtual Interim Meeting

August 26, 2014
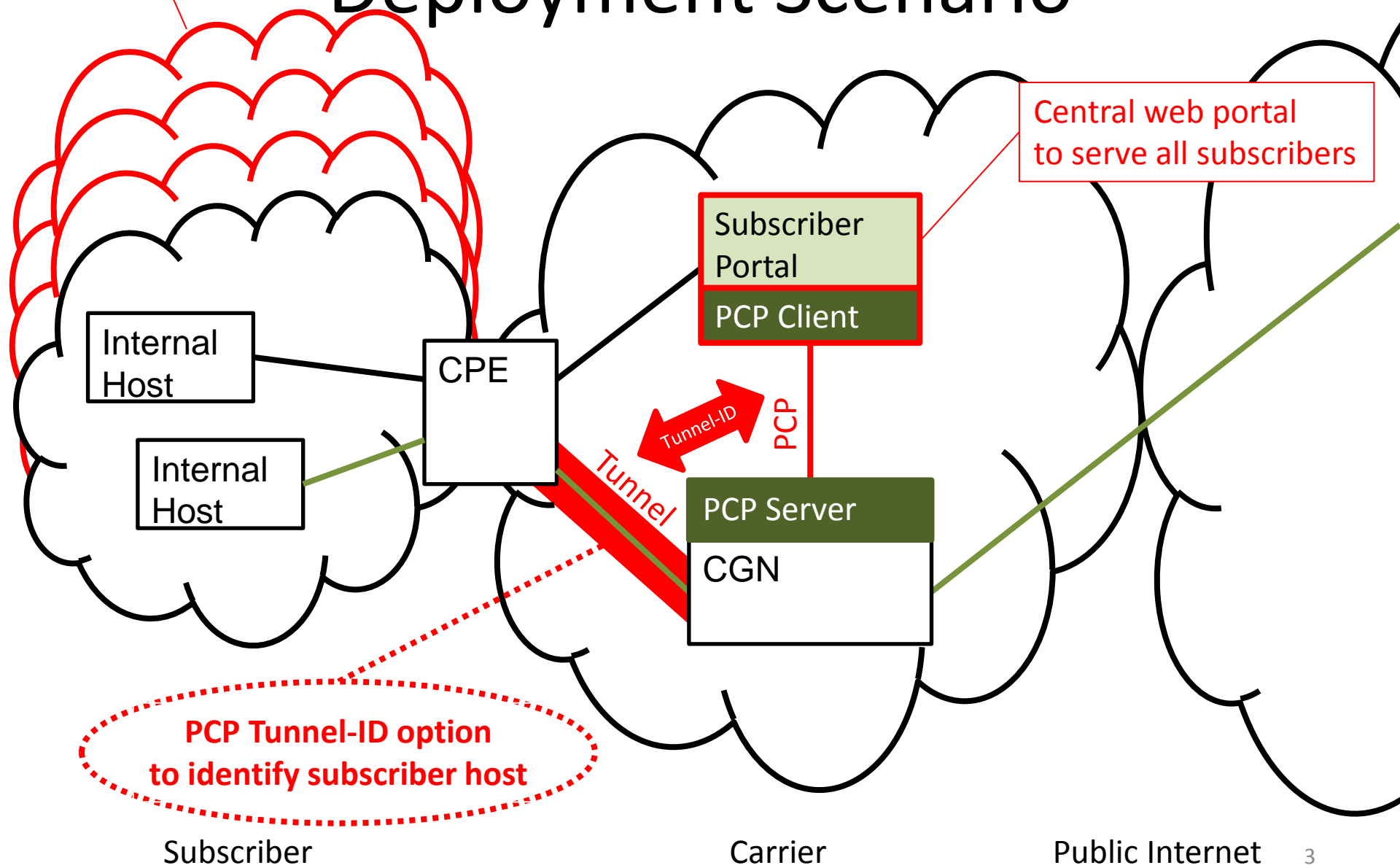
draft-ripke-pcp-tunnel-id-option-01

Deployment Scenario

Internal Host

Internal Host

CPE

Subscriber Portal

PCP Client

PCP

PCP Server

CGN

Tunnel

Subscriber

Carrier

Public Internet

Deployment Scenario

Subscribers can freely choose their internal IP addresses: This potentially leads to overlapping IP address spaces.

Central web portal to serve all subscribers

Subscriber Portal

PCP Client

Internal Host

CPE

Internal Host

Tunnel-ID

PCP

Tunnel

PCP Server

CGN

PCP Tunnel-ID option to identify subscriber host

Subscriber

Carrier

Public Internet

3

Changes since -00

- Tunnel-ID option is not bound to a specific tunnel technology
- New deployment scenario
  - Previously: Carrier web portal
    - a static scenario for manual port manipulation
  - New: Carrier-hosted UPnP IGD-PCP IWF
    - Same problem to be solved with Tunnel-ID option
    - UPnP IGD-PCP IWF is not embedded in the CPE, but offered as a service to the subscriber
    - Refer to draft-boucadair-pcp-deployment-cases

Open Issues

- Leaking UPnP messages from subscriber
  - Upgrade of CPE required?
  - CPE operates in L2 bridge mode
- Potential other use case:
  - Refer to draft-boucadair-pcp-sfc-classifier-control
  - "Extended THIRD_PARTY option to include a L2 identifier (e.g., MAC address), an opaque subscriber-identifier, an IMSI, etc."
  - Option name to be changed

Next Steps

?