

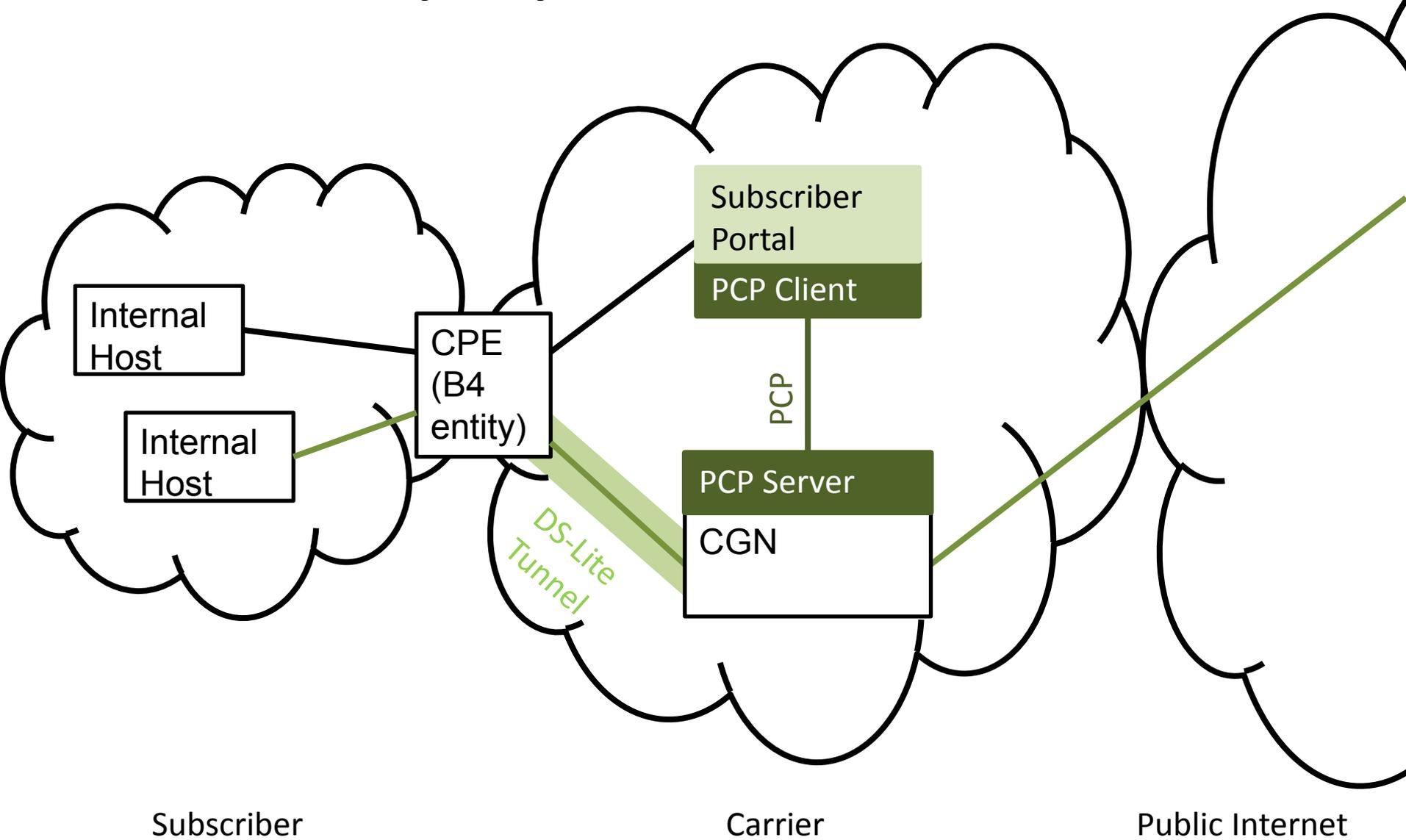
PCP Tunnel-ID Option

IETF 89

PCP Working Group

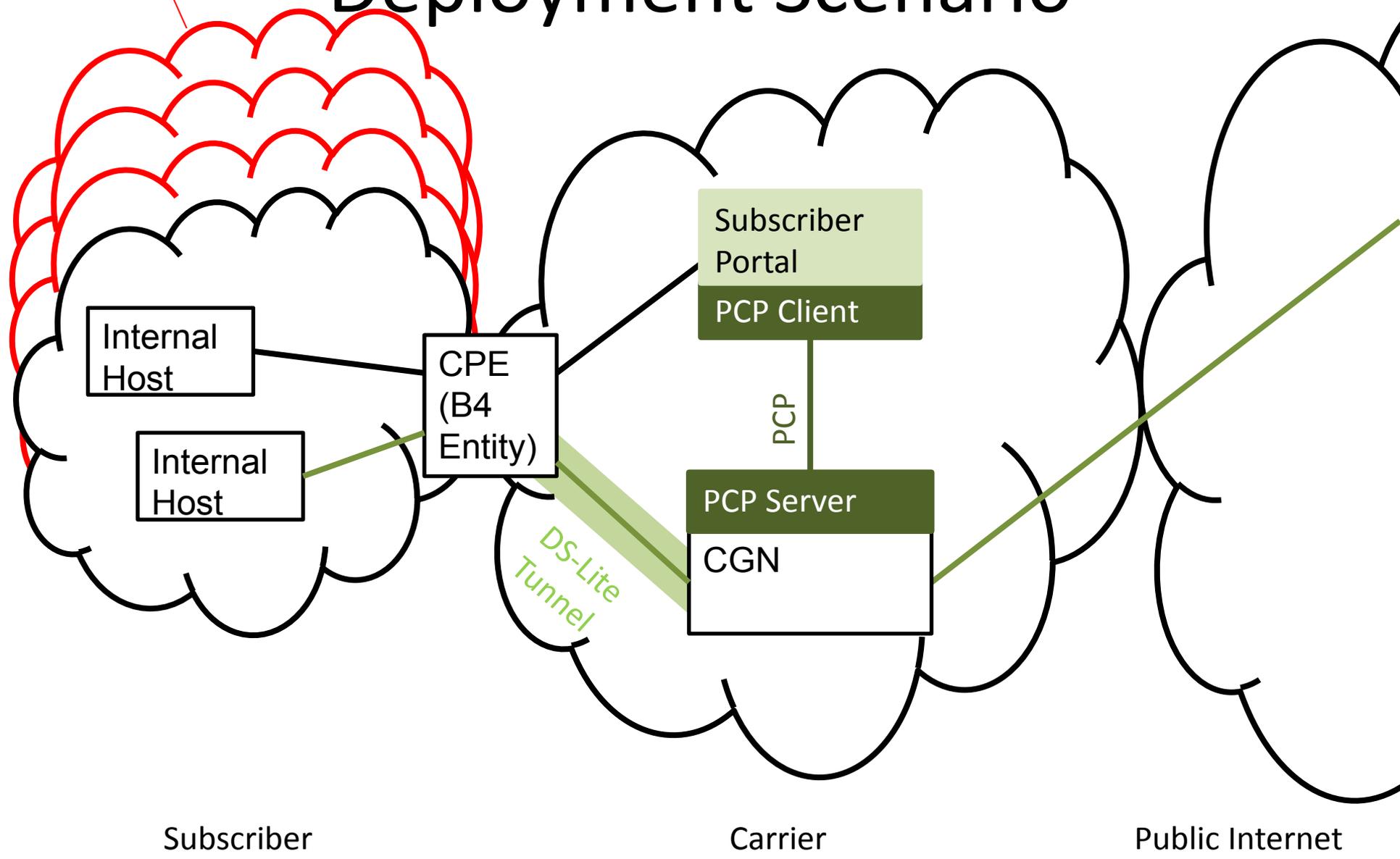
draft-ripke-pcp-tunnel-id-option-00

Deployment Scenario



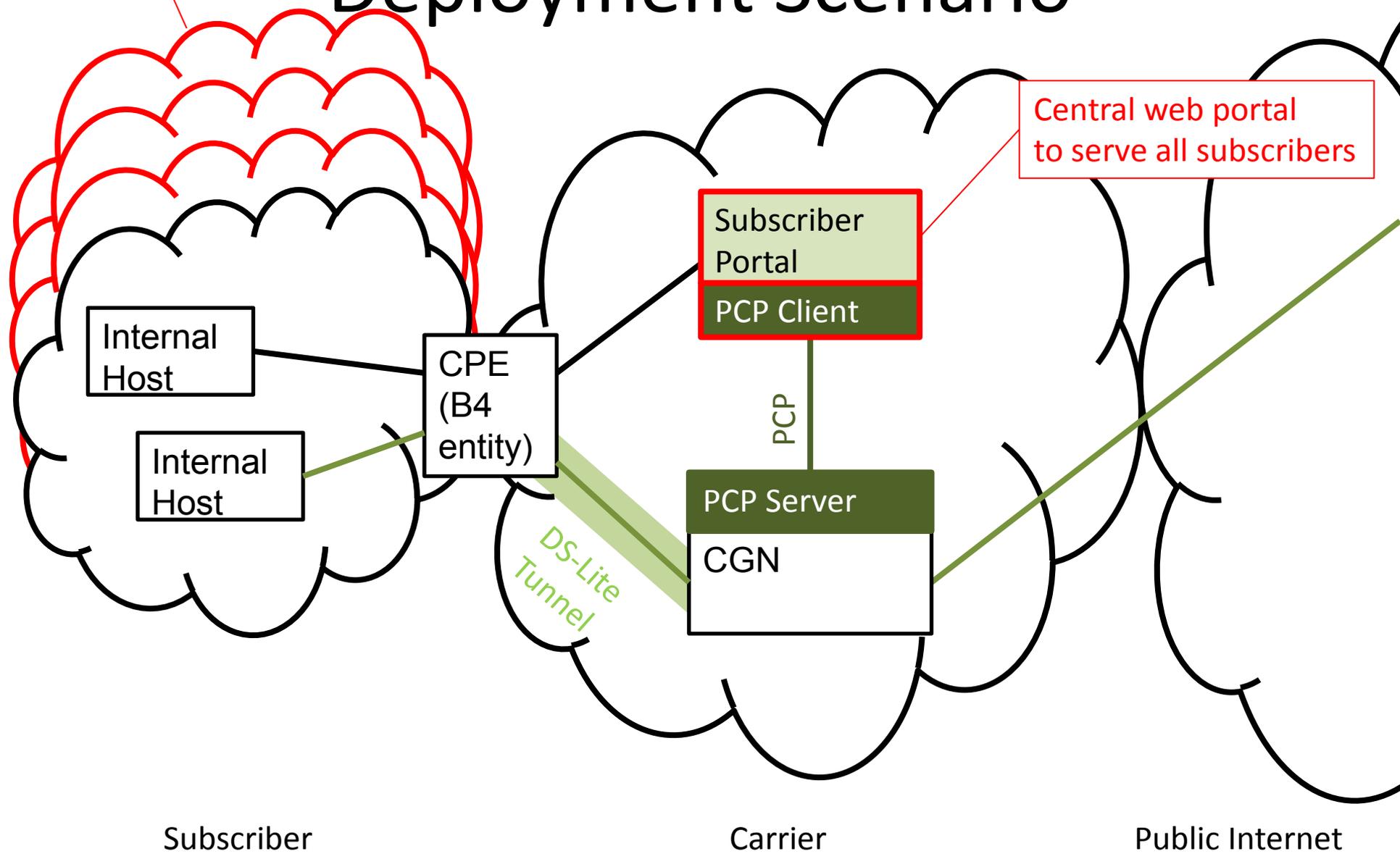
Subscribers can freely choose their internal IP addresses:
This potentially leads to overlapping IP address spaces.

Deployment Scenario



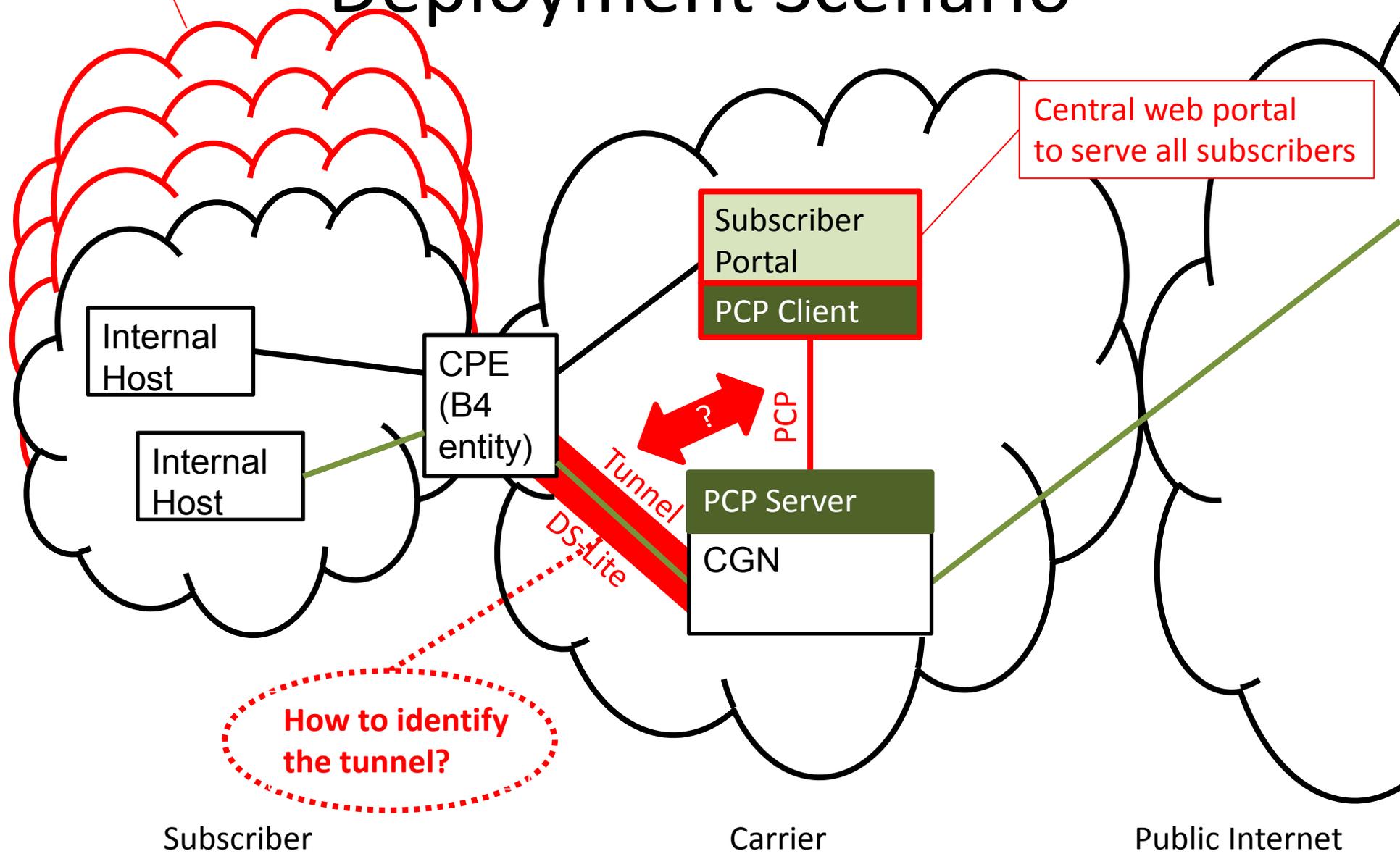
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Deployment Scenario



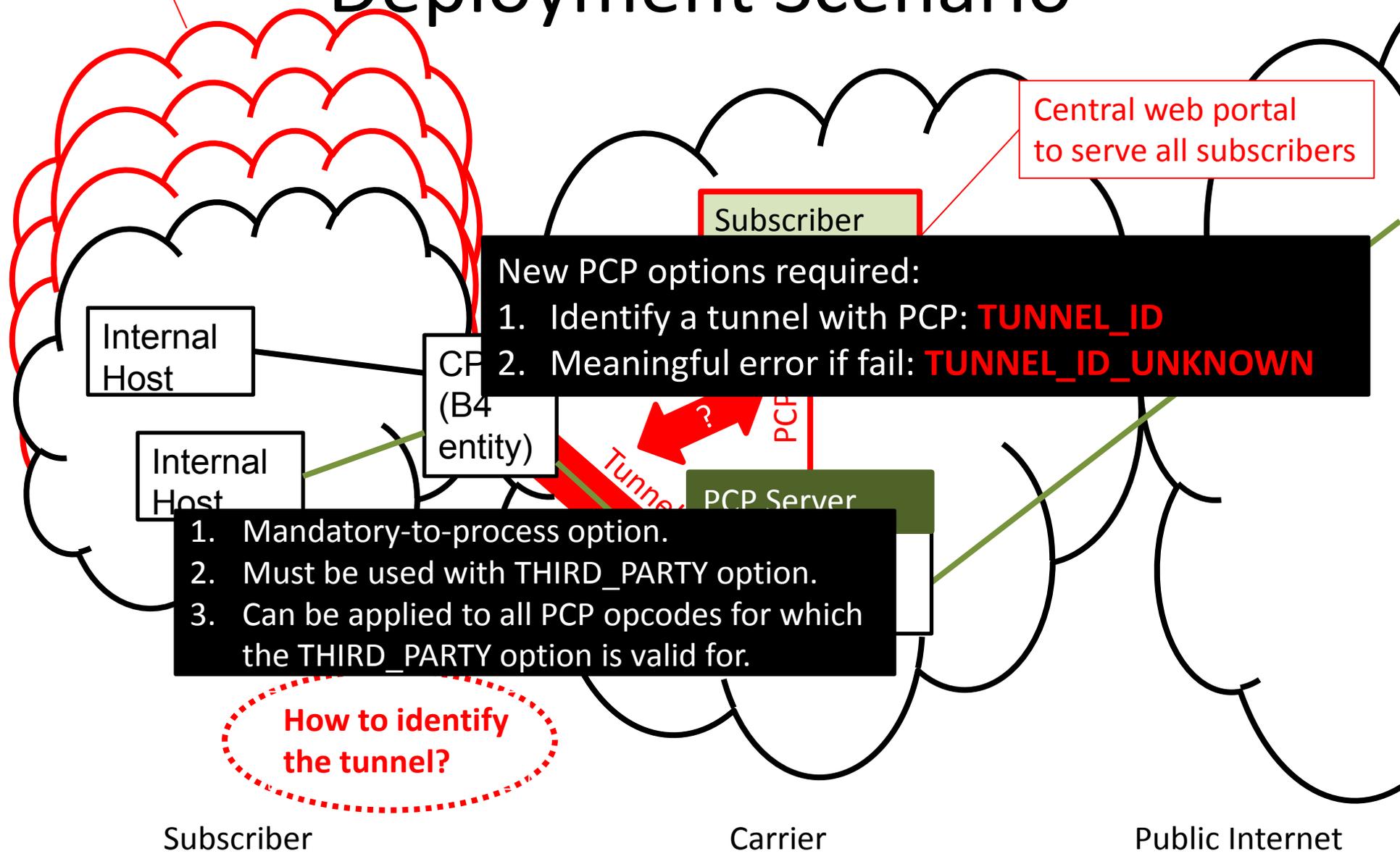
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Deployment Scenario



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Deployment Scenario



Central web portal to serve all subscribers

Subscriber

New PCP options required:
1. Identify a tunnel with PCP: **TUNNEL_ID**
2. Meaningful error if fail: **TUNNEL_ID_UNKNOWN**

1. Mandatory-to-process option.
2. Must be used with THIRD_PARTY option.
3. Can be applied to all PCP opcodes for which the THIRD_PARTY option is valid for.

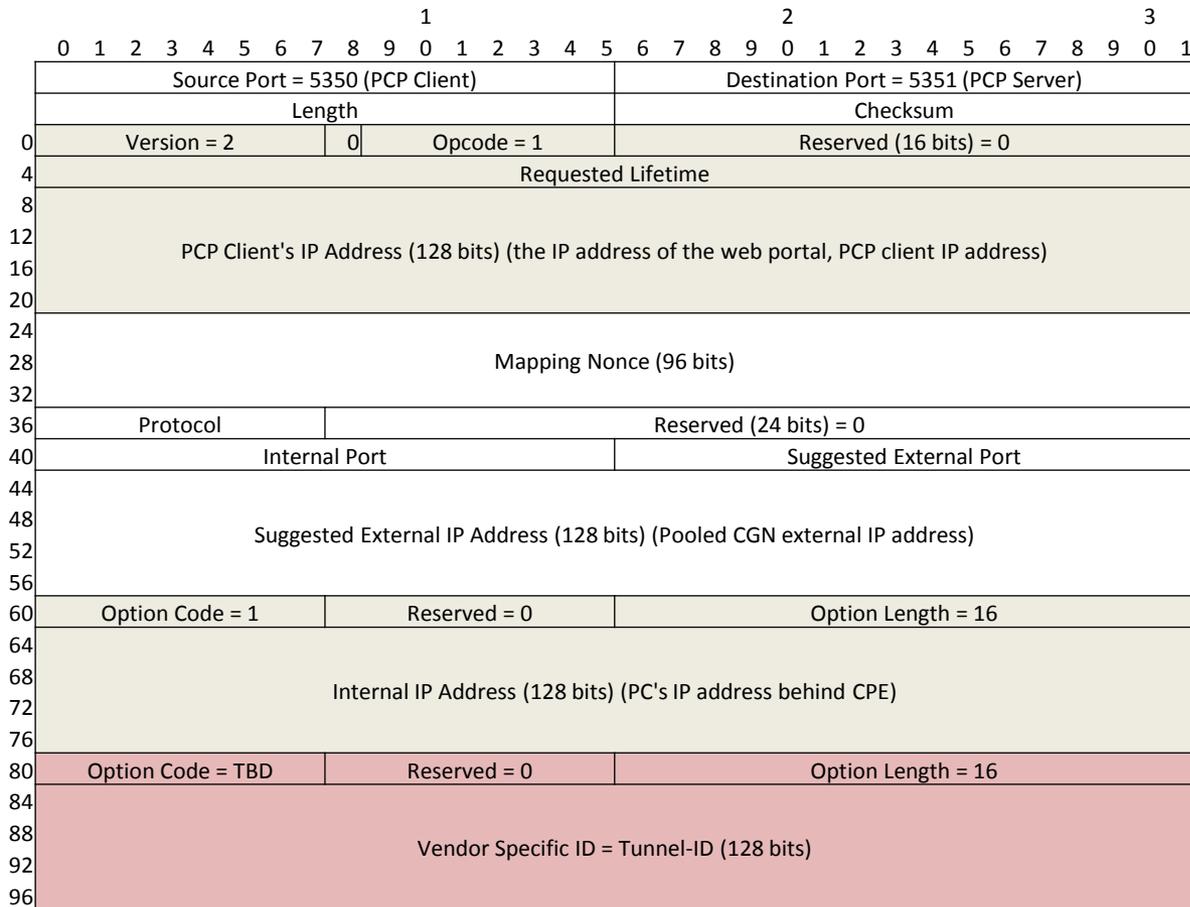
How to identify the tunnel?

Subscriber

Carrier

Public Internet

PCP tunnel ID option an example of a MAP request



UDP Header

Common
Request
Packet
Format

MAP
Opcode
Request

THIRD_PARTY
Option

Vendor Specific
Option: TUNNEL_ID