

Radius Attributes for Stateful NAT64

draft-chen-behave-nat64-radius-extension-00

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Issues

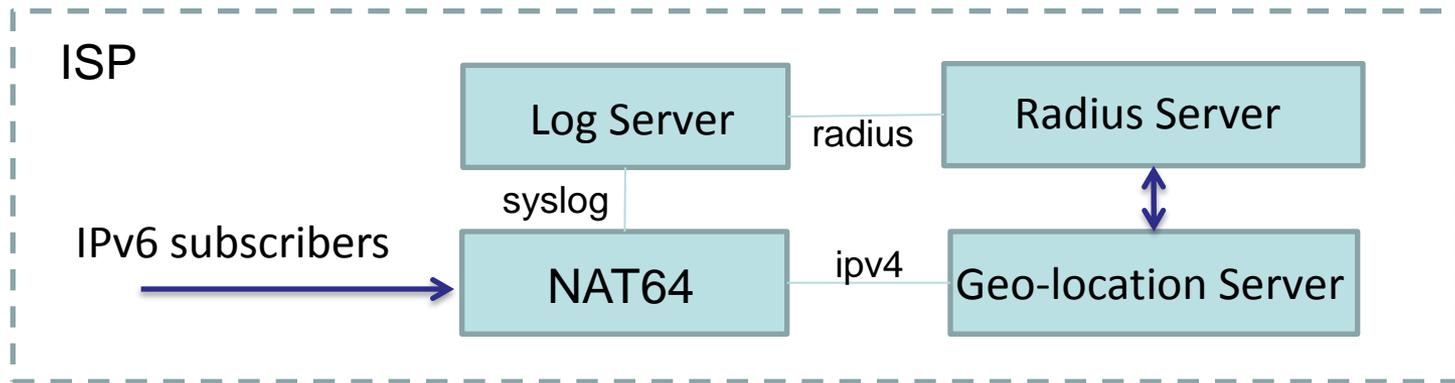
- We are deploying the stateful NAT64 as a CGN that makes geo-location service rather inaccurate
- It's desirable to reveal IPv6 source via an in-band solution, however it may require application-aware functions that significantly degrade NAT64-CGN performances

Motivations

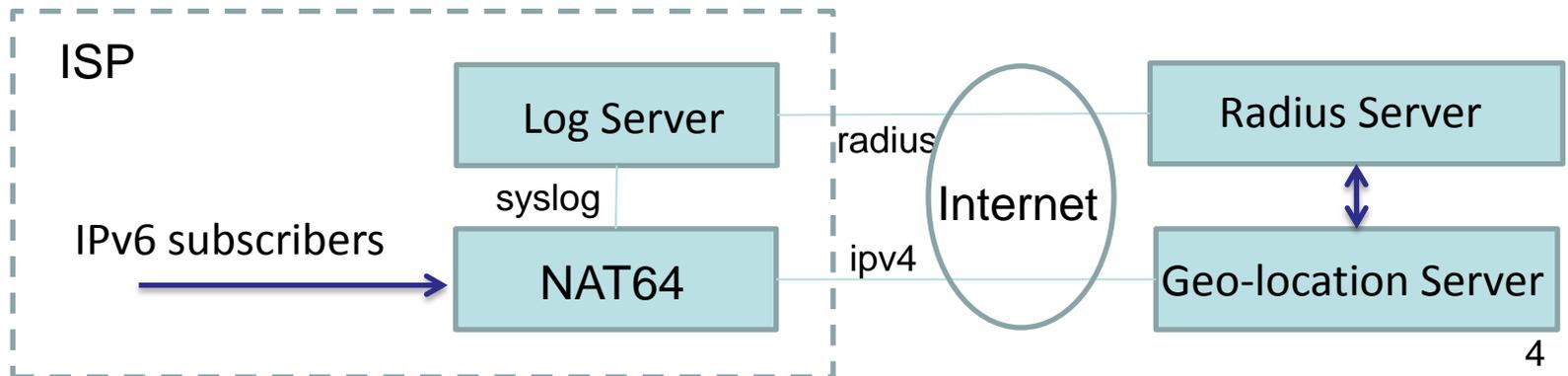
- Reveal an IPv6 address as the Identifier of a subscriber, since it has global meaning
- Reutilize the radius message bus, since some geo-location systems already deployed based on radius databases (RFC5580)
- Propose an in-band solution which doesn't require additional process on the application layer
- Avoid transmission of overwhelming mappings to the radius server

Scenarios

- Internal deployment (same administrative domain)

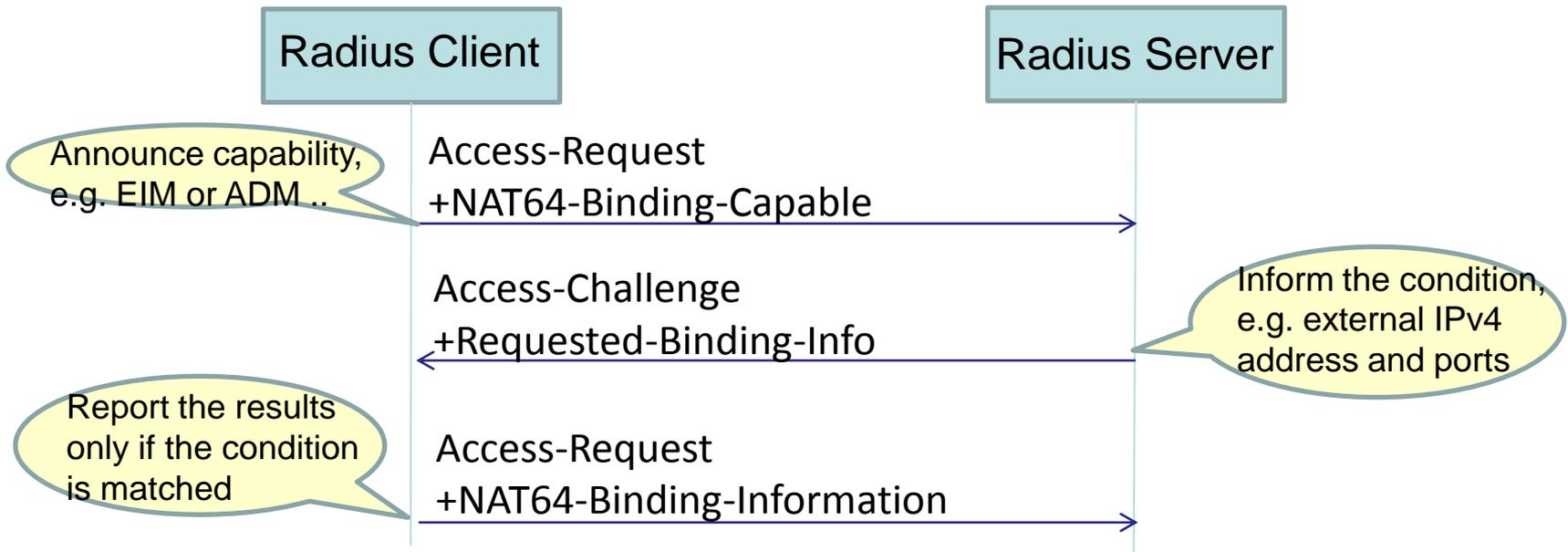


- External deployment (Third-party involved)



Radius Process

- Pull model



Evaluations

- + In-band solution for the geo-location system based on radius database
- + Out-band solution for the NAT64 translations
- External interfaces may complicate the deployment
- + The experiences of deploying RFC5580 could be reused

- Is it some thing useful BEHAVE could work on?