Service Selection for Mobile IPv4

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Need for a Service Selection with Mobile IPv4

- In some (Proxy)MIPv4 deployments identifying the MN is not enough to distinguish between multiple services provisioned to the MN.

- An operator (mobility service provider) might want to provide its subscribers:
  - An enterprise data access for which the operator hosts connectivity and mobility services on behalf of the enterprise.
  - Access to service domains / external networks that are otherwise not accessible because of some operator's business reasons.
  - Simultaneous access to different service domains / external networks that are separated based on operator's policies.

- Enable easier policy assignment for operators based on the subscribed services.
- Enable easier hosting of mobility services for virtual operators.
A new Service Selection extension header.

- RFC2794 could have been used but we wanted to avoid (again) overloading the NAI
  - Use the NAI only to identify the user@operator

- Cleaner approach and also backwards compatible
  - The Service Selection option is skipable -> ‘legacy’ HAs just fall back to the default behavior
  - Not coupled with access authentication and AAA

- The Service Selection may affect the routing of the IP packets in the HA depending on the selected service.

- The Service Selection may affect the dynamic HoA allocation when e.g. used with the MN-NAI option
  - Different HoA for the same MN-NAI depending on the identified service
A new Service Selection extension header cont’d

- The Service Selection Identifier is encoded as a host name or as a FQDN. Examples:
  - "czech-beer"
  - "czech-beer.brewery.example.com"
Questions? Feedback?