

Mobile IP Session Identifier Extension

draft-mccann-mobileip-sessionid-00.txt

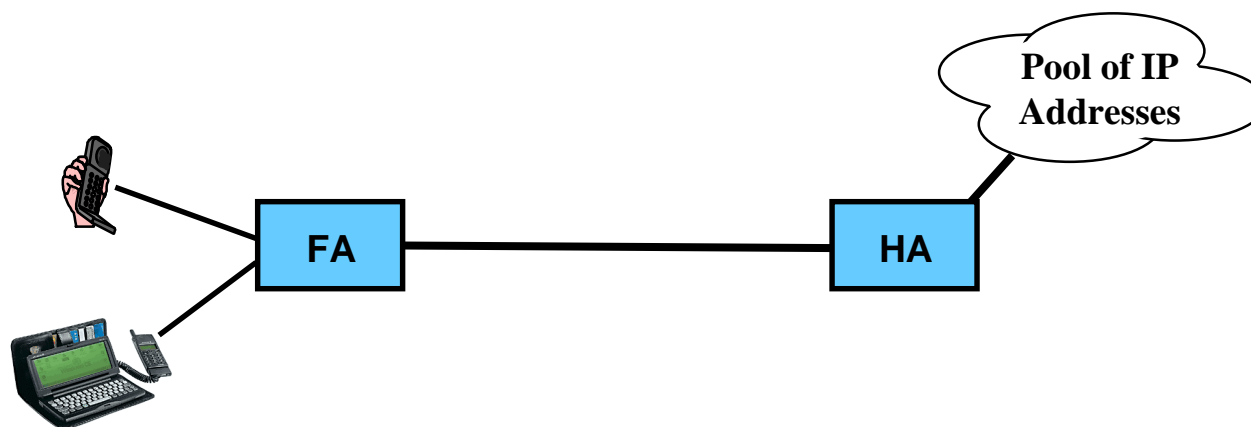
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Outline

- **Why Multiple Sessions?**
- **Session ID Extension**
- **Home Address Allocation**

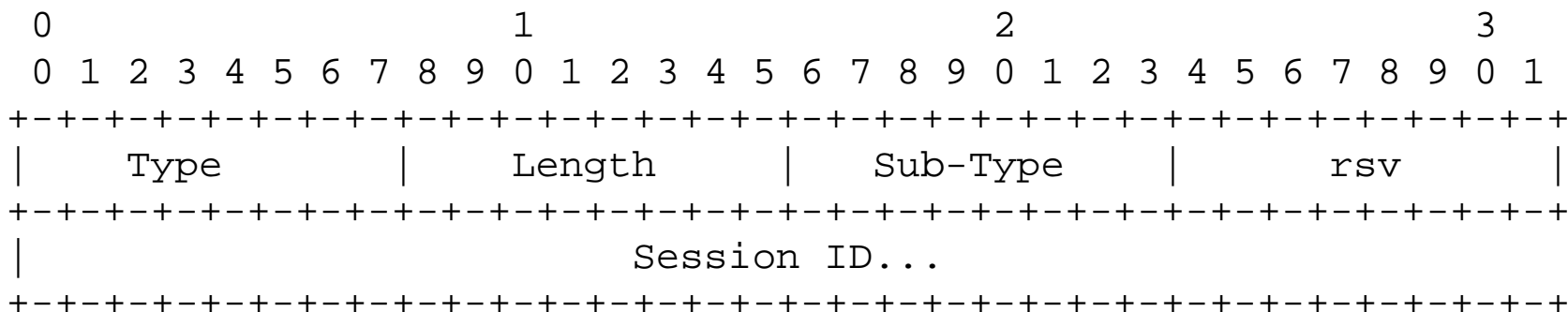
Why Multiple Sessions?

- **Two or more hosts, same NAI**
 - E.g., one user with phone + laptop
- **Two network interfaces on the same host**
 - E.g., wireless ethernet + cellular



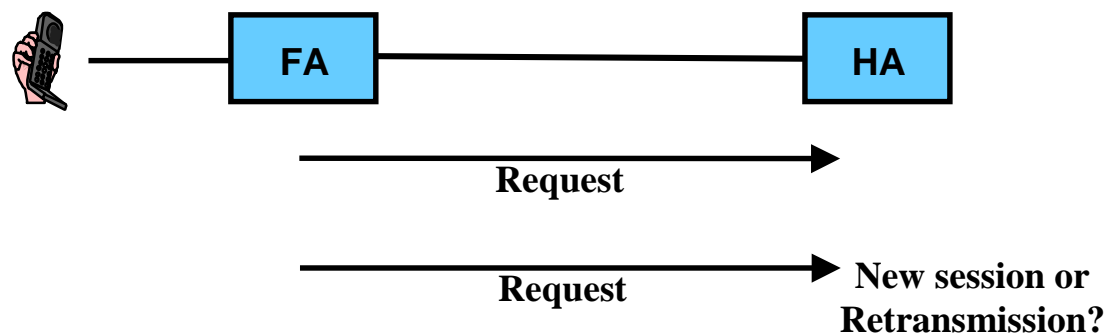
Session ID Extension

- Holds an identification string for the session
- HA uses it to make address allocation decisions



Why not just use Mobile IP Identification Field?

- **This field identifies a request - why can't we just use that?**
- **Responses may be dropped**
 - If the HA gets two requests with different Identification, both requesting address assignment, what should happen?
 - Are these two independent sessions or a retransmission?
- **No way to associate a request with a service**
 - Different (dynamic) DNS entries
 - Different QoS capabilities of different devices



Home Address Allocation

- **Mobile Node should be allowed to keep an address**
 - Even after returning to the home network and de-registering mobility bindings

COA	Lifetime	Interpretation
0.0.0.0	0	Tear down all tunnels, but keep the allocated address.
Home Address	0	Tear down all tunnels and release the allocated address.
Home Address	> 0	Extend the use of the home address. Mobility bindings are unaffected.
FA's Address or co-located COA	0	Tear down the indicated tunnel, but keep the allocated address.

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Conclusions

- Can we make this a WG item?
- Do we want to add allocation of home address while at home?