

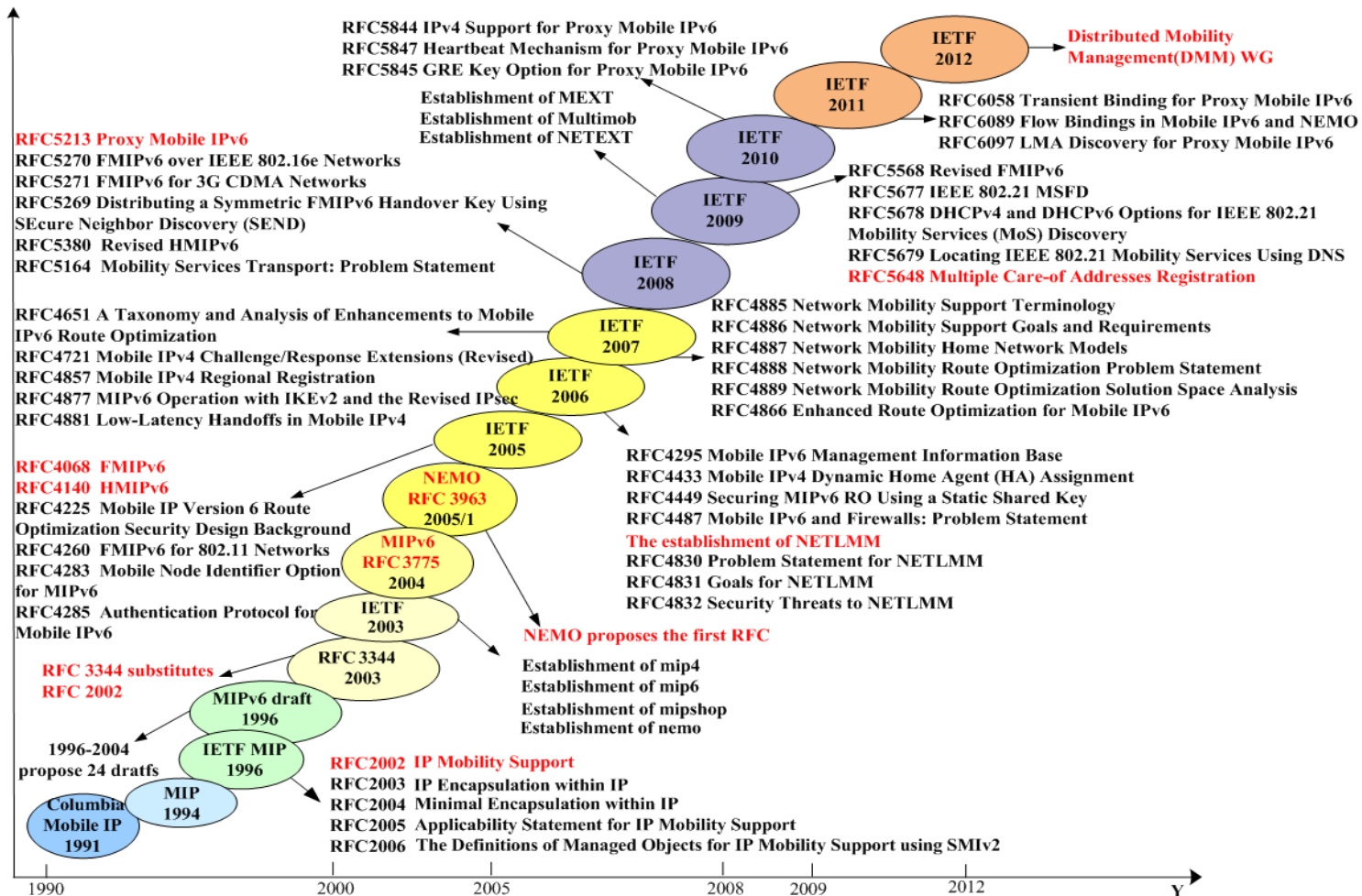
Mobility Ability Negotiation

draft-yan-dmm-man-00

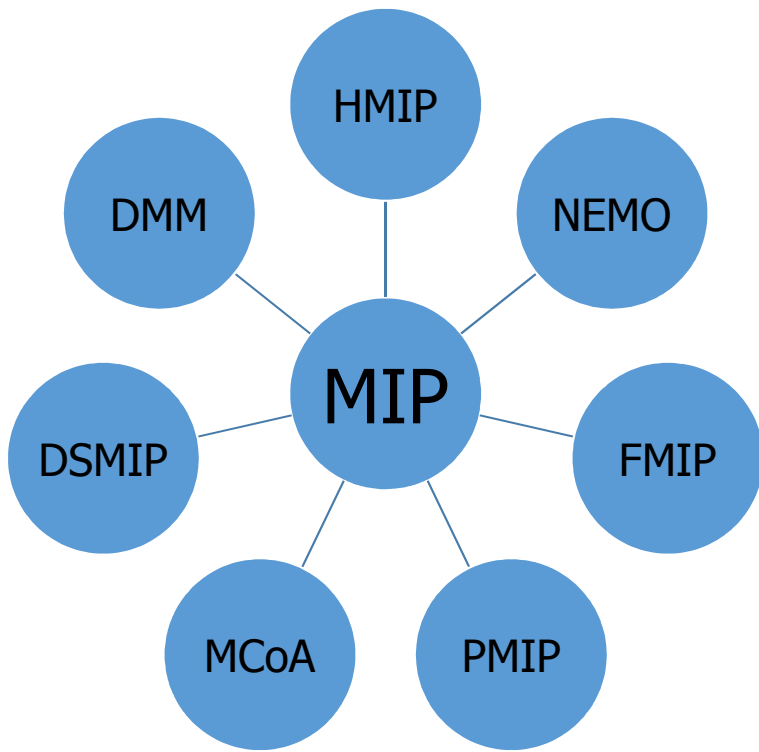
Z. Yan and J. Lee

@IETF 98

IP mobility management related~



Two categories



Problems

- Protocols will co-exist
- Multiple protocol daemons have to be managed
- Negotiation and selection of mobility management protocol
 - when the terminal accesses a new network for the first time
 - or when handover happens

More...

- **Protocol co-existence**

- What is the co-existence architecture?
 - How to manage the binding tables?
 - How to handle different signaling messages for different protocols?
 - How to manage the routing table and tunnels?

- **Protocol negotiation**

- Which entity will initiate the procedure?
- What principles should be followed?

Example scenarios

- Network supports MIPv6, host only works with PMIPv6 ☹️
- Network supports both MIPv6 and PMIPv6, host only works with PMIPv6 😊
- Network supports both MIPv6 and PMIPv6, host only works with PMIPv6 😊
- Network and host support multiple extended protocols 😊
-

MAN-Mobility Ability Negotiation

- **Principles:**

- During initiation, PMIPv6 may be used as a default mobility management protocol once the network supports it.
- If the host prefers host-based scheme, a negotiation is executed to handover from PMIPv6 to MIPv6 style.
- After initial attachment, a profile will be generated in the management store to record the selected protocol of this host.
- When the handover happens, the network will check the selected protocol during the access/authentication process.
- But the network also needs to notify the host if the selected protocol cannot be supported herein.

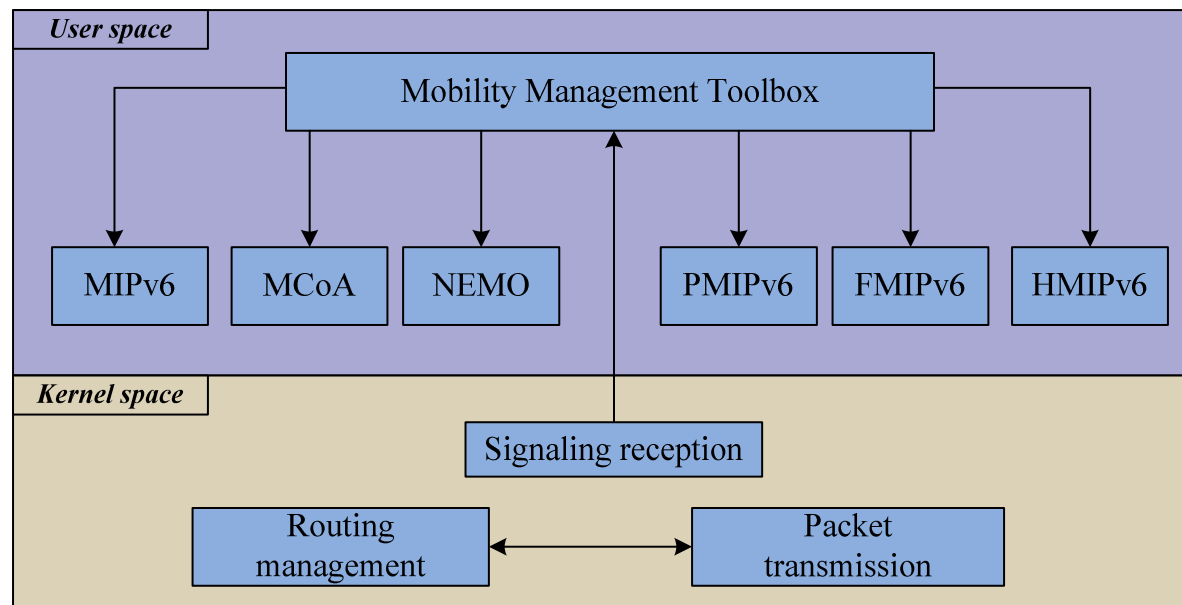
MAN-Mobility Ability Negotiation

- **Solutions:**

- ICMPv6 based
- Diameter/RADIUS based
- IEEE 802.21 based
-

Other issues

- Protocol co-coexistence architecture



Thank you for your attention~

Next Step?