

I E T F[®]

PMIPv6 and Network Mobility Problem Statement

draft-bernardos-netext-pmipv6-nemo-ps-02

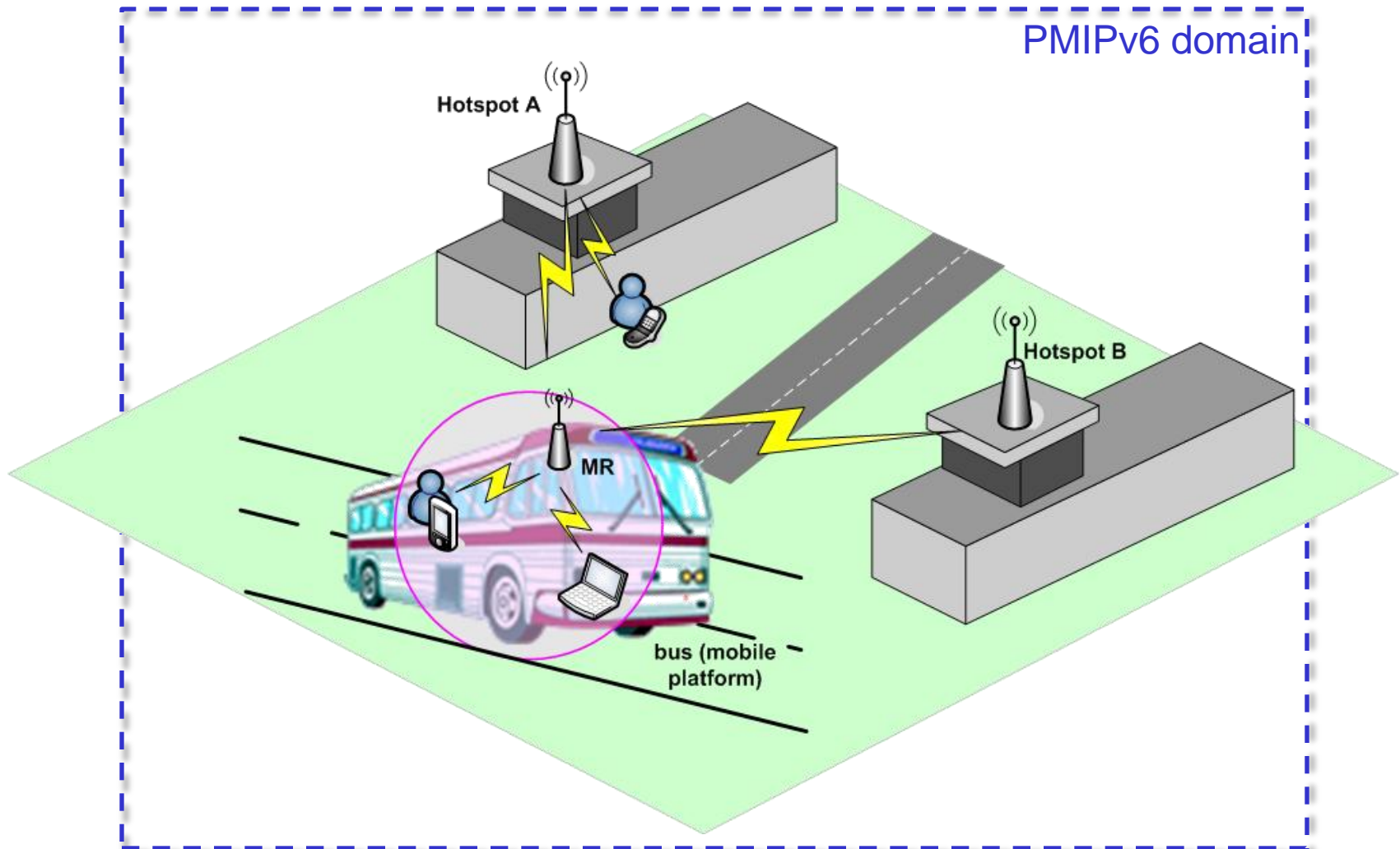
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Paris, NETEXT WG, 2012-03-28

Motivation

- There are some scenarios / use cases involving:
 - the need for a network-based localized mobility management,
 - the need for attachment points to the infrastructure also be mobile
- Examples of these scenarios are:
 - The provision of Internet access in airports where we want to keep the service while changing terminal buildings and moving within a train
 - The provision of Internet access in public transportation systems (both at the stations and while moving in a bus/train/car)
- Supporting these use cases cannot be done with current standards

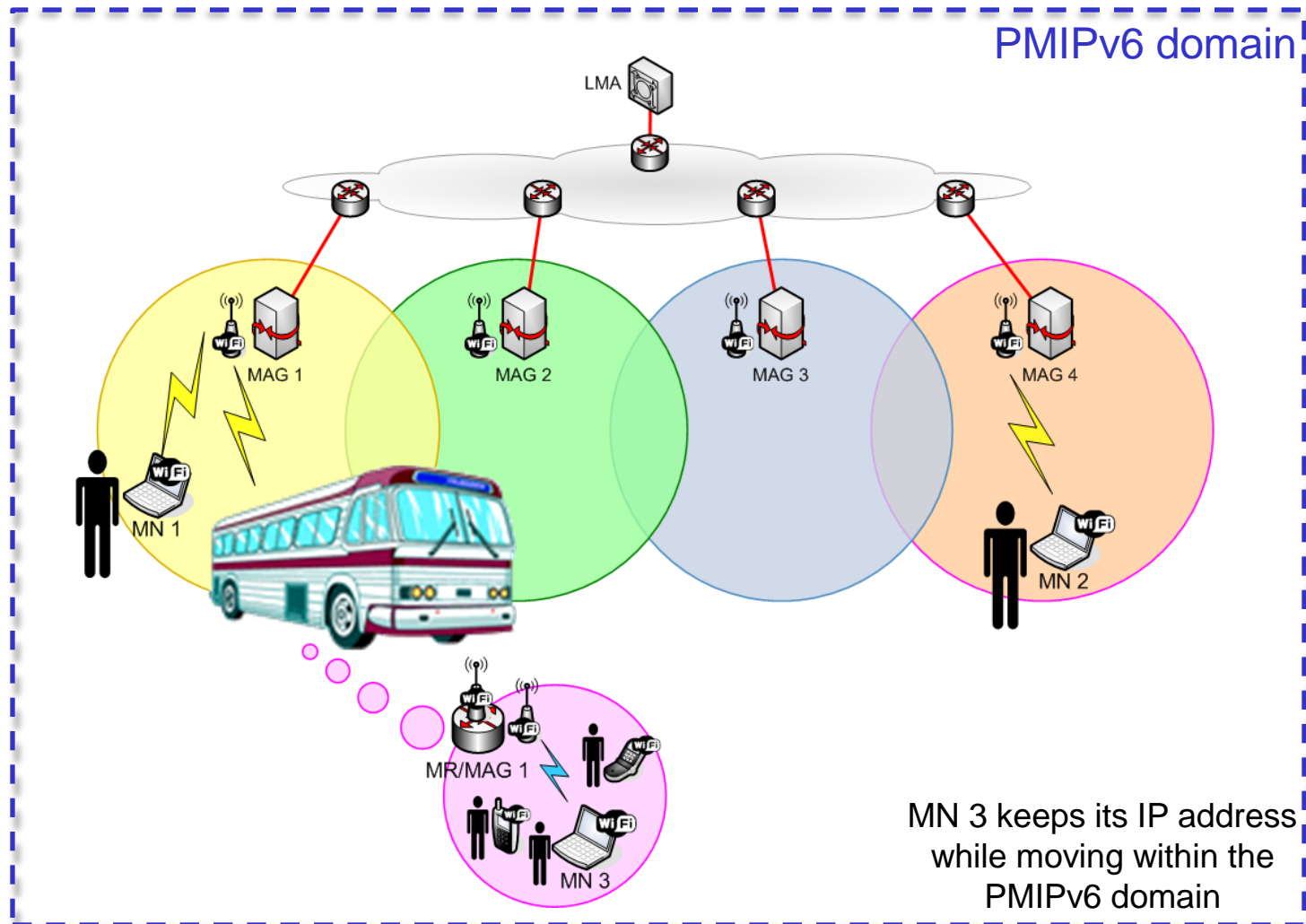
Motivation. Use case example



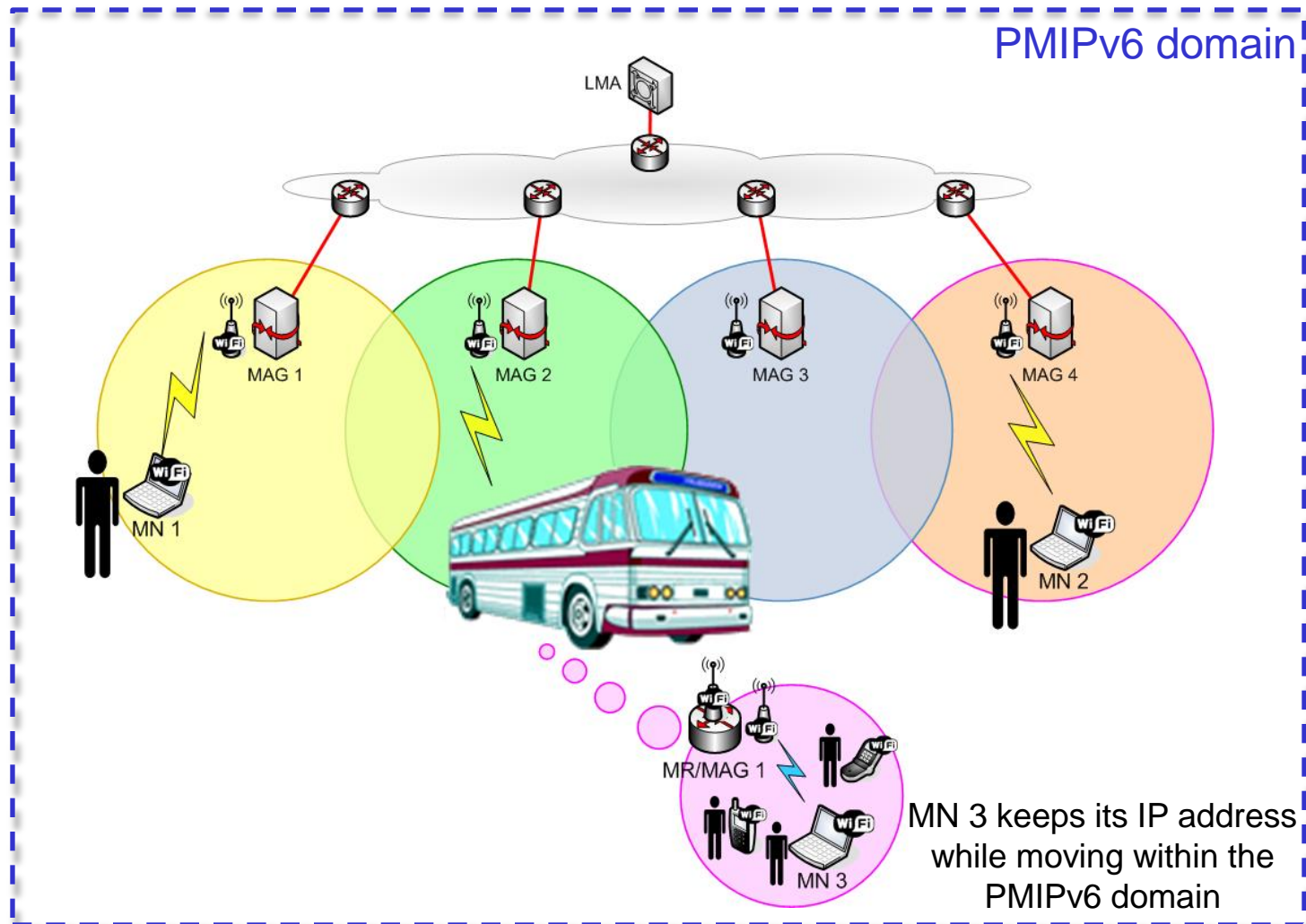
Motivation

- Supporting these use cases cannot be done with current standards
 - RFC5213 (Proxy Mobile IPv6) only provides support to an MN roaming among stationary MAGs
 - RFC3963 (NEMO Basic Support) only provides support for network mobility (within the Internet)
 - An MN roaming between a NEMO MR and an AR would need to change its IPv6 address
 - draft-ietf-netext-pd-pmip-02 (Prefix Delegation for Proxy Mobile IPv6) only provides support for network mobility (within a PMIPv6 domain)
 - An MN roaming between a NEMO and a MAG would need to change its IPv6 address

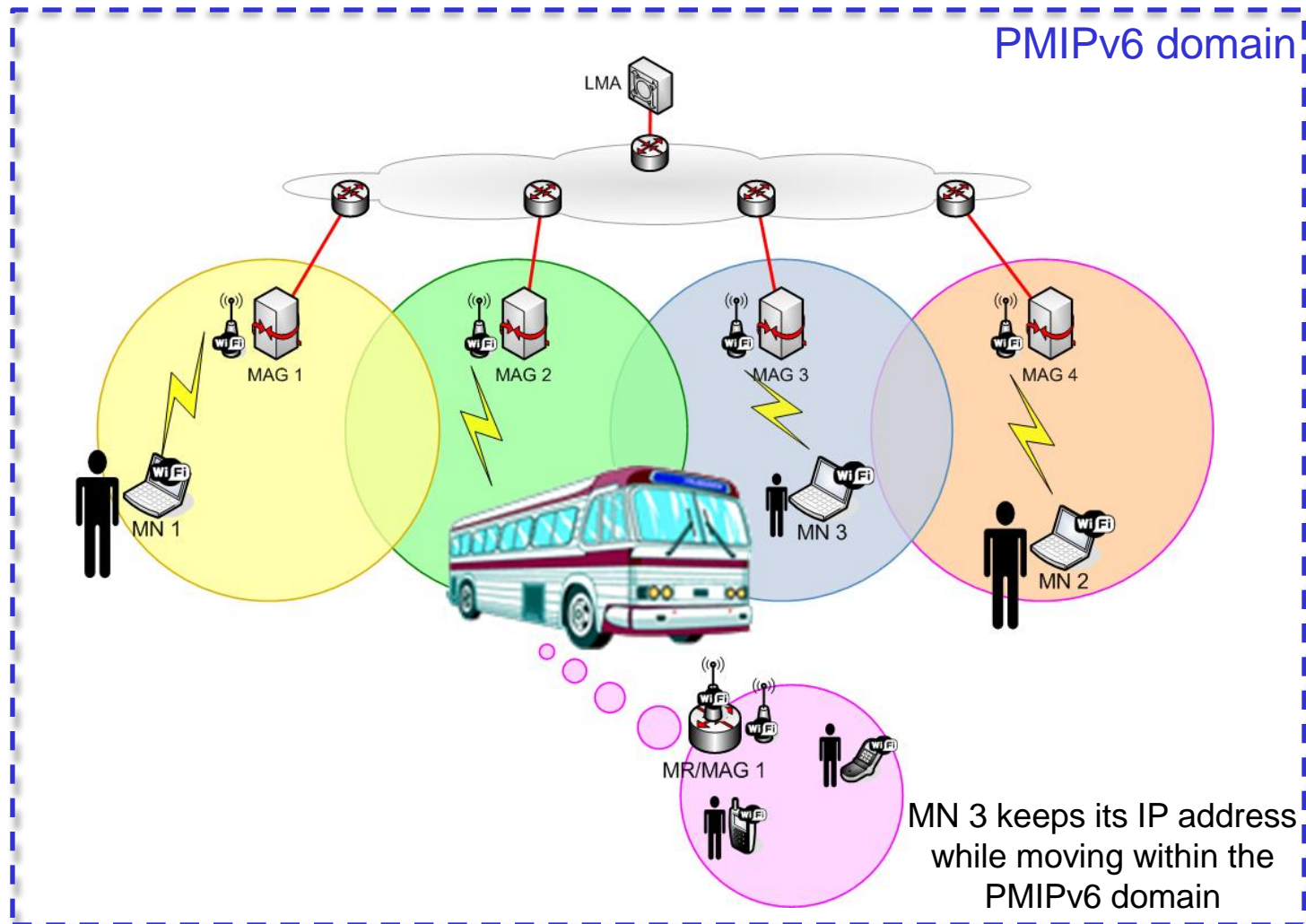
Problem statement



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Questions to the WG

- Do you think these use cases are interesting?
- Do you think we should work on extending PMIPv6 to support this problem?
- Who would be willing to work on this?
- If there is interest, what would be the next step?
 - Should we work more on the problem statement and publish it as informational?
 - Should we work on a solution for this?