

Randomized and Changing MAC Address

draft-ietf-mac-address-randomization-12

IETF 119 – MADINAS WG

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Introduction and goals (reminder)

- Privacy, an increasing concern
 - Layer-2 globally unique identifiers (MAC addresses) have been assigned to devices and are transmitted in the clear in, for instance, beacons, probe requests, or after association
 - MAC addresses can easily be intercepted and used to track location or behavior
- Several projects in IETF, IEEE 802 and among mobile OS vendors to deal with plain-text, unique, permanent MAC addresses
 - Assigning a random MAC address to a device per connection, per SSID, after some time period
 - Area of extensive research (see reference Martin et al (2017) in draft for more comprehensive list of research in this area, or IEEE 802.11 RCM TIG final report in 11-19/1442r9, also in draft)
- Goal of this draft: document Current State of Affairs regarding MAC address randomization

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Changelog and Next Steps

- Several updates since IETF 118
 - Addressed very good comments from Bob Hinden (mostly related to IPv6)
 - Addressed (also very good) review from Mohamed Boucadair
 - Title has not been changed
 - Both tables and pointer to github have been kept
 - Also comments from Andrew G. Miles and Behcet Sarikaya and David Farmer
- We believe the document is ready for IETF LC