

# **Deprecating EUI-64 Based IPv6 Addresses**

**(draft-gont-6man-deprecate-eui64-based-addresses)**

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# Motivation

- Modified EUI-64 have well-known privacy and security implications
- They allow:
  - Network activity correlation
  - Location tracking
  - Address scanning
  - Device-specific vulnerability exploitation
- Some stacks have deviated from the current standard to mitigate these issues

# What this document specifies

- This document requires that:
  - Nodes **MUST NOT** employ schemes that include the hardware address in the IID.
  - Nodes **SHOULD** employ draft-ietf-6man-stable-privacy-addresses as the default scheme for generating addresses with SLACC.

# What this document IS NOT about

- Whether subnets should be required to be /64
  - That's a completely orthogonal issue

# Suggested changes

- Some folks have suggested that:
  - Modified EUI-64 format IIDs are not formally deprecated, but rather...
  - The default address scheme should default to draft-ietf-6man-stable-privacy-addresses
  - i.e., it can be overridden to employ Modified EUI-64

# Moving forward

- Comments?
- Adopt as 6man wg item?