

# **Recommendation on Stable IPv6 Interface Identifiers**

**(draft-ietf-6man-default-iids-00)**

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# Hardware addresses in IPv6 IIDs

- Embedding hardware addresses in IIDs has a number of security & privacy implications:
  - Network reconnaissance (address scanning)
  - Node tracking
  - Device-specific attacks
- However, specs still mandate that SLAAC IIDs be generated by embedding hardware addresses

# draft-ietf-6man-default-iids

- Updates a number of RFCs (mostly “IPv6 over foo” documents) recommending that:
  - Nodes SHOULD NOT embed the underlying hardware address in IPv6 Interface Identifiers
  - Nodes SHOULD employ RFC7217 as the default method for generating stable addresses with SLAAC

# draft-ietf-6man-default-iids (II)

- Document has been pretty stable for quite a while
- Recent feedback (Ralph Droms):
  - Spell out the considerations for which a node might decide not to comply with the recommendations in this document
  - The document should allow for the continued use of hardware addresses in the IPv6 IIDs, given proper justification (e.g., to allow for header compression)