

**Privacy Extensions for
Stateless Address
Autoconfiguration in IPv6**
(draft-gont-6man-rfc4941bis-00)

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Issues with RFC4941

- Prevents use of only temporary addresses
- Recommends reusing the same IID for multiple prefixes
- Reuses the same IID as host moves from one network to another
- Limits non-deprecated addresses to one per prefix
- Miscellaneous issues

Goals of this document

- Fix the aforementioned issues in RFC4941
- Replace the algorithm in RFC4941 with two alternative algorithms that comply with draft-gont-6man-non-stable-iids
- Formally obsolete RFC4941

Generation of non-stable IIDs

- We propose two alternative algorithms:
 - Random IIDs that change upon network disconnection/attachment
 - A la RFC7217:
F(Prefix, MAC_Address, Network_ID, Time, DAD_Counter, secret_key)

Moving forward

- Adopt as 6man WG item?