

SAVI for SLAAC update

[draft-ietf-savi-fcfs-04](#)

IETF78 - Maastricht

Changes from 03 version

- Reflected last WG decisions
 - SHOULD trigger the binding creation process upon the reception of a data packet for which there is no binding
 - Included the arguments for qualifying the SHOULD in an appendix
 - Added a new section for discovering prefixes based on Router Advertisements
 - Security based on accepting them only from trusted ports

Open questions: router ports

- As defined we have trusted ports and validating ports
- We assume that routers are connected to trusted ports
- Do we need router ports?
- A router port would allow remote traffic but validate local traffic
 - Assumes that not all routers are trusted
 - How do we deal with a router forwarding local traffic (e.g. The case of a subnet with multiple routers, redirects)
 - We trust the router port to send any transit traffic anyway, so how much security this adds?

Open Issues: garbage collection

- When to delete bindings?
 - Under normal condition: When the lifetime of the binding is over
 - What should be a good default value for the lifetime?
 - Currently, we are extending the lifetime upon each data packet. How if this processing wise?
 - We could link it to the prefix lifetime when the prefix is automatically discovered. What to do with manually configured prefixes?
 - Should the SAVI device send a NUD probe before deleting in this case?
 - Other option would be to not delete unless needed (i.e. Under attack or when we create another binding for the address)

Open issues: garbage collection (2)

- Deleting bindings under attack
 - Suppose an attacker sends a bulk of DAD NSOL
 - The SAVI device does not have enough resources to store all bindings, which ones to delete?
 - Note that the effect of deleting a binding is NOT blocking a host, but that an attacker can steal the binding
 - Proposed solution: delete newer bindings
 - The attacker binding compete with each other and bindings prior the attack are not affected
 - Do we need to take other measures?

Open issues: rate limiting

- SAVI SLAAC generates packets
 - DAD NSOL packets
 - upon reception of NADV and data packets
 - When the lifetime expires to verify the binding before deletion
- How do we rate limit them?