

Path-Aware Semantic Addressing (PASA) for Low power and Lossy Networks

~~draft-ietf-6lo-path-aware-semantic-addressing-11~~

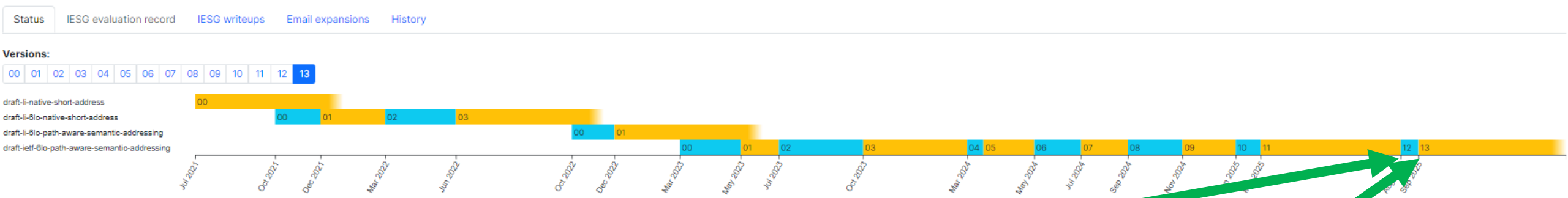
~~draft-ietf-6lo-path-aware-semantic-addressing-12~~

draft-ietf-6lo-path-aware-semantic-addressing-13

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Since IETF 123

Path-Aware Semantic Addressing (PASA) for Low power and Lossy Networks draft-ietf-6lo-path-aware-semantic-addressing-13



draft-ietf-6lo-path-aware-semantic-address-12.txt
August 2025
Main changes: Keep Alive

draft-ietf-6lo-path-aware-semantic-address-13.txt
September 2025
Main changes: Update GAAO usage examples as for the latest format

Main Change

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messages from potential parents. The node can choose a parent on a "first come first served" basis and send a Neighbor Solicitation (NS) with a GAAO message to request an address to the selected parent (see Figure 12 for an example of such option).

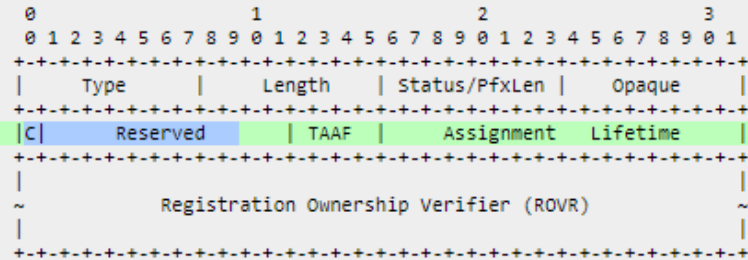
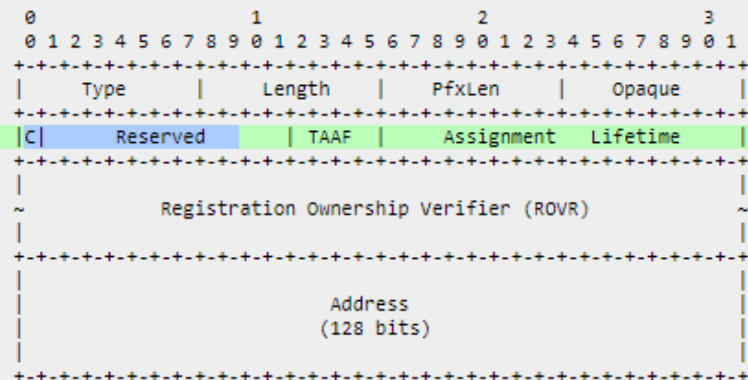


Figure 12: NS GAAO option example.

The requester MUST indicate its role as indicated in Section 9. If the node acts as a PASA Router it means that the address will be further delegated. Otherwise, if the node acts as a PASA Host, the address will not be further delegated. The parent, acting as IPv6 ND Registrar will process the received GAAO message and act according to [I-D.ietf-6lo-nd-gaaol], and the corresponding GAAO message for the NA packet is generated. The NA message will carry the GAAO message with the AAF field set to the PASA TAAF value (see Section 11).

Furthermore, the C-bit of the GAAO message in the NA message MUST be set in order to request confirmation of address usage through explicit registration. The returning GAAO message will carry as well the PASA address that the parent assigns to its child using the procedures described in Section 6. The PASA address is appended to the GAAO message (see Figure 13).



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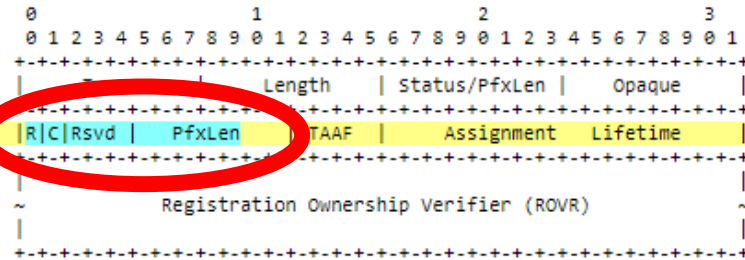
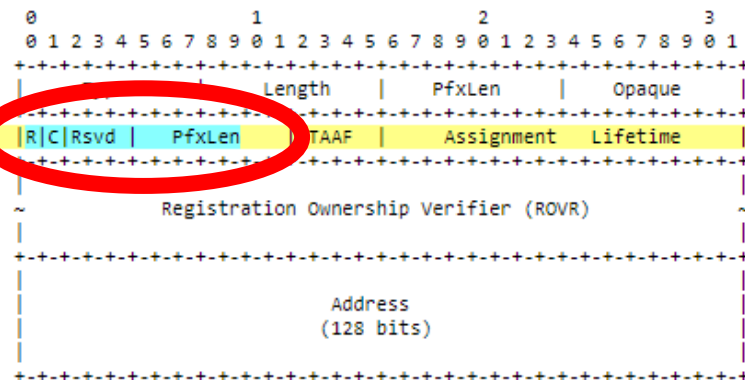


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Furthermore, the R-bit of the GAAO message in the NA message MUST be set in order to request confirmation of address usage through explicit registration. The returning GAAO message will carry as well the PASA address that the parent assigns to its child using the procedures described in Section 6. The PASA address is appended to the GAAO message (see Figure 13) and its prefix length is indicated in the PfxLen field.



- GAAO Option has been updated following Pascal' s in-depth review, hence, the examples have been updated using the latest format

Next Steps

- **Still good to go**
 - But waiting for GAAO

THANKS!