

# **Using IPsec to Secure IPv6-in-IPv4 Tunnels**

**draft-ietf-v6ops-ipsec-tunnels-00.txt  
(ex. draft-tschofenig-v6ops-secure-tunnels-03.txt)**

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# Overview

- draft-ietf-v6ops-mech-v2 was low on IPsec detail
  - The details are non-trivial and lengthy
  - This doc was written to describe those details for v6-in-v4 tunnels
  
- Lots of good feedback since -03 (December)
  - WG -00 was published in July
  - Aiming Informational
  
- Web-based issue tracking
  - <http://www.netcore.fi/pekkas/ietf/temp/ipsec-tunnels.html>
  - All feedback for -03 is believed to be addressed
  
- Feedback welcome
  - Since -00, only editorial comments from Elwyn Davies

# The biggest changes since -03

- All the tunnel traffic is protected
- IPsec processing vs ingress filtering is clarified
- Section on EAP was removed (out of scope)
- We describe three ways of protecting the tunnel
  - Transport mode
  - Tunnel mode with generic `::/0 <-> ::/0` selectors
    - Both approaches assume the tunnel is modelled as an interface
  - Tunnel mode with specific selectors
    - Assumes the tunnel is NOT modelled as an interface
- Also some rewriting and trimming down for clarity

# What next?

- Feedback is welcome
  - Especially if you read a previous version of the draft
  
- The chairs should judge when this is ready for WG LC
  - We'll revise (at least) once before WG LC
  
- Any specific comments/suggestions ?