# pfSense Plus - Bug #16219

# pfSense IPsec VTI Mode Incompatible with Juniper Traffic Selector Requirements

05/30/2025 06:25 PM - Henry Zhou

Status:IncompleteStart date:Priority:NormalDue date:

Assignee: % Done:

Category: IPsec Estimated time: 0.00 hour

Target version:

Release Notes: Default Affected All

Architecture:

0%

Affected Plus 24.11

Version:

# Description

When configuring an IPsec VPN in VTI (route-based) mode between pfSense (using strongSwan) and Juniper firewalls (e.g., SRX), the tunnel negotiation fails or traffic does not flow due to incompatible traffic selector requirements.

### Expected Behavior:

pfSense should successfully negotiate IPsec VTI tunnels with devices that require specific (narrow) traffic selectors, such as Juniper firewalls, ideally allowing for interoperability and full tunnel functionality.

#### Actual Behavior:

pfSense (strongSwan) attempts to negotiate the tunnel using the traffic selector 0.0.0.0/0 < ->0.0.0. 0.0/0 as required for VTI mode.

Juniper firewalls require specific subnets for traffic selectors and do not accept the universal 0 .0.0.0/0 value, resulting in a negotiation failure or a tunnel where no traffic flows.

Error logs indicate mismatched traffic selectors or negotiation failure.

## Steps to Reproduce:

Configure IPsec VTI (route-based VPN) on pfSense with a Juniper firewall peer.

Set Phase 2 on pfSense to use 0.0.0.0/0 (the only available option for VTI mode).

Attempt to configure matching traffic selectors on Juniper (which requires specific subnets).

Attempt to establish the tunnel.

#### History

### #1 - 06/01/2025 01:43 AM - Kris Phillips

- Status changed from New to Incomplete

If you're using traffic selectors, you want Policy-mode in pfSense Plus. VTIs don't use traffic selectors, so I'm confused how this is a bug, exactly.

Please advise.

Marking as Incomplete temporarily.

### #2 - 06/01/2025 05:31 AM - Henry Zhou

Thanks for taking care of the ticket.

Let me clarify. I don't intend to use traffic selector under VTI mode.

The issue is the VTI mode of pfsense by default sends 0.0.0.0/0 as traffic selector to the other side. While Juniper doesn't allow that, the IKE phase1 connection would not be established.

There's no way for me to override that in pfsense.

06/05/2025 1/1