

## Knowledge Base:

Security

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## Search Result #2 of 6 (100%)

**Case Number** K18056497

**Title** VPN Client users are unable to connect beyond the PIX firewall or ASA

In PIX Firewall version 6.x, if the [fixup protocol esp-ike](#) command is enabled, users are allowed to work behind the firewall. The problem with this fix is that it breaks any tunnels that went to this firewall.

The [fixup protocol esp-ike](#) command enables Port Address Translation (PAT) for Encapsulating Security Payload (ESP) for a single tunnel.

**Note:** The [fixup protocol esp-ike](#) command is disabled by default.

## Core issue

If a [fixup protocol esp-ike](#) command is issued, the firewall preserves the source port of the Internet Key Exchange (IKE) and creates a PAT translation for ESP traffic. Additionally, in this case, the Internet Security Association and Key Management Protocol (ISAKMP) cannot be enabled on any interface.

The [fixup protocol esp-ike](#) command is not supported in PIX Firewall version 7.0 anymore, but NAT-T can be enabled instead.

In order to allow VPN clients to connect beyond the firewall, enable **NAT-T** on the PIX/ASA and use a VPN client that is NAT-T capable.

In order to enable NAT-T on PIX, issue the [isakmp nat-traversal 20](#) command. Refer to these documents for more information on NAT-T configurations:

## Resolution

- [IPSec NAT Transparency](#)
- [Configuring Multiple VPN Clients to a Cisco VPN 3000 Concentrator Using NAT-Traversal](#)

**Problem Type** Connectivity through the device

Firewall - PIX 500 series

**Product Family** VPN - hardware & software clients

ASA Hardware & Software

**PIX Software Version** PIX version 6.x

PIX version 7.x

**VPN Client Software Version** Cisco VPN Client

7.1

**ASA Software Version** 7.2

7.0

**PIX Model** PIX 500 Series Firewall

ASA 5500

**ASA Models** ASA 5510

**Client Location on Network with PIX** Inside

<b>VPN Tunnel End Points</b>	Client Any end point
<b>Features &amp; Tasks</b>	Network Address Translation Traversal (NAT-T) or NAT Transparency Fixup protocols
<b>Selected PIX or Router Commands</b>	nat-traversal
<b>VPN Protocols</b>	IPSec
<b>VPN Tunnel Initialization</b>	VPN session is established but no traffic passes
<b>Direct URL</b>	<a href="http://www.ciscotacc.com/security/showcase?case=K18056497">http://www.ciscotacc.com/security/showcase?case=K18056497</a>

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