

# Configuring IKEv2 VRF aware SVTI

## Contents

[Introduction](#)

[Prerequisites](#)

[Requirements](#)

[Components Used](#)

[Configure](#)

[Network Diagram](#)

[Background Information](#)

[Configuration](#)

[Verify](#)

[Troubleshoot](#)

[Troubleshooting Commands](#)

[Sample Debug Output](#)

[References](#)

## Introduction

This document provides a configuration example to set up a Virtual Routing and Forwarding (VRF) aware Static Virtual Tunnel Interfaces (SVTI) between two Virtual Private Network (VPN) peers using Internet Key Exchange version 2 (IKEv2) protocol. This setup includes an IVRF of which the local subnet is part of and a Front Door VRF (FVRF) where tunnel establishment occurs.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics :

- Basic knowledge of IOS CLI configuration
- Fundamental knowledge of IKEv2 and IPSEC

### Components Used

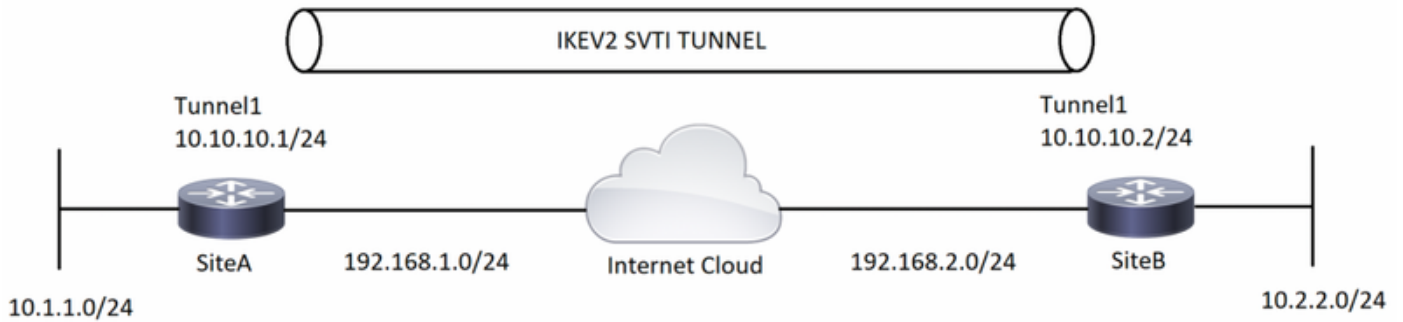
The information in this document is based on a Cisco IOS 2900 Series Router with Cisco IOS® Software Release 15.7.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is in production, make sure that you understand the potential impact of any command.

## Configure

In this section, you are presented with the information to configure the features described in this document.

## Network Diagram



## Background Information

VRF aware tunnels are used to connect customer networks separated by other untrusted core networks, or core networks with different infrastructures. With this setup, any source and destination of a tunnel can be configured to belong to any VRF table.

On a tunnel interface, “vrf forwarding” command is used to place the tunnel interface in that particular routing table. With the “tunnel vrf” command, the router is instructed to use the specified VRF’s routing table for the tunnel source and destination IP addresses.

In the example used for this document, the loopback interface VRF is like a LAN segment VRF. Packets entering through this interface are routed using this VRF. Packets exiting the tunnel are forwarded to this VRF.

The VRF configured on the tunnel using the “tunnel vrf” command is the transport VRF. It is the VRF that applies to the encapsulated payload and is used to look up the tunnel endpoints. This VRF is the same as the VRF associated with the physical interface over which the tunnel sends packets.

## Configuration

Step 1. Define VRF's. In this example, two VRF's are defined named "local" and "internet" respectively for LAN and WAN interfaces.

**SiteA :**

**! — Defining vrf**

```
vrf definition internet
rd 2:2
address-family ipv4
exit-address-family
```

```
vrf definition local
rd 1:1
address-family ipv4
exit-address-family
```

**SiteB :**

**! — Defining vrf**

```
vrf definition internet
rd 2:2
address-family ipv4
exit-address-family
```

```
vrf definition local
rd 1:1
address-family ipv4
exit-address-family
```

Step 2. Configure the parameters required to bring up an IKEv2 tunnel, starting with the creation of the IKEv2 proposal and keyring. Then, the IKEv2 profile is configured where the crypto keyring is called and to conclude with the crypto configuration, configure IPSEC profile includes the IPSEC transform-set and IKEv2 profile.

**SiteA :**

**! — IKEv2 Proposal**

```
crypto ikev2 proposal prop-1
encryption aes-cbc-256
integrity sha512
group 5
```

**! --- IKEv2 Policy**

```
crypto ikev2 policy policy-1
match fvrf internet
match address local 192.168.1.1
proposal prop-1
```

**! — IKEv2 Keyring**

```
crypto ikev2 keyring keyring-1
peer ANY
address 0.0.0.0 0.0.0.0
pre-shared-key cisco123
```

**! — IKEv2 Profile**

```
crypto ikev2 profile IKEv2-Profile-1
match fvrf internet
match identity remote address 0.0.0.0
authentication remote pre-share
authentication local pre-share
keyring local keyring-1
```

**! — IPSEC Transform set**

```
crypto ipsec transform-set transform-1 esp-aes 256 esp-sha-hmac
mode transport
```

**! — IPSEC Profile**

```
crypto ipsec profile IPSEC-Profile-1
set transform-set transform-1
set ikev2-profile IKEv2-Profile-1
```

**SiteB :**

**! — IKEv2 Proposal**

```
crypto ikev2 proposal prop-1
  encryption aes-cbc-256
  integrity sha512
  group 5
```

**! -- IKEv2 Policy**

```
crypto ikev2 policy policy-1
match fvrf internet
match address local 192.168.2.1
proposal prop-1 ! — IKEv2 Keyring
```

```
crypto ikev2 keyring keyring-1
  peer ANY
  address 0.0.0.0 0.0.0.0
  pre-shared-key cisco123
```

**! — IKEv2 Profile**

```
crypto ikev2 profile IKEv2-Profile-1
  match fvrf internet
  match identity remote address 0.0.0.0
  authentication remote pre-share
  authentication local pre-share
  keyring local keyring-1
```

**! — IPSEC Transform set**

```
crypto ipsec transform-set transform-1 esp-aes 256 esp-sha-hmac
mode transport
```

**! — IPSEC Profile**

```
crypto ipsec profile IPSEC-Profile-1
  set transform-set transform-1
  set ikev2-profile IKEv2-Profile-1
```

Step 3. Configure the necessary interfaces. In this example, the loopback interface is part of “local” VRF and is acting as interesting traffic. The physical interface, part of “internet” VRF, is the WAN interface connected to ISP. The tunnel interface is to trigger the GRE encapsulation encrypted with IPSEC.

**SiteA :**

**! — Interface Configuration**

```
interface Loopback1
  vrf forwarding local
  ip address 10.1.1.1 255.255.255.0

interface Tunnel1
  vrf forwarding local
  ip address 10.10.10.1 255.255.255.0
  tunnel source 192.168.1.1
  tunnel destination 192.168.2.1
  tunnel key 777
  tunnel vrf internet
  tunnel protection ipsec profile IPSEC-Profile-1

interface GigabitEthernet0/0
```

```
vrf forwarding internet
ip address 192.168.1.1 255.255.255.0
```

**SiteB :**

**! — Interface Configuration**

```
interface Loopback1
vrf forwarding local
ip address 10.2.2.2 255.255.255.0

interface Tunnell
vrf forwarding local
ip address 10.10.10.2 255.255.255.0
tunnel source 192.168.2.1
tunnel destination 192.168.1.1
tunnel key 777
tunnel vrf internet
tunnel protection ipsec profile IPSEC-Profile-1

interface GigabitEthernet0/0
vrf forwarding internet
ip address 192.168.2.1 255.255.255.0
```

Step 4: Configure the VRF specific routes. In this setup, a route in “internet” VRF is configured as a default route pointing to next hop of the physical interface (or ISP in real environments). The second route in “local” VRF is for the remote VPN subnet which is pointing to tunnel interface which eventually makes the traffic go through the tunnel interface and trigger the VPN.

**SiteA :**

**! — VRF specific routes**

```
ip route vrf internet 0.0.0.0 0.0.0.0 192.168.1.2
ip route vrf local 10.2.2.0 255.255.255.0 Tunnell
```

**SiteB :**

**! — VRF specific routes**

```
ip route vrf internet 0.0.0.0 0.0.0.0 192.168.2.2
ip route vrf local 10.1.1.0 255.255.255.0 tunnel 1
```

## Verify

This section provides information you can use to confirm your configuration is working properly. The [Cisco CLI Analyzer](#) supports certain show commands. Use the Cisco CLI Analyzer to view an analysis of show command output.

**SiteA :**

```
SiteA#show crypto ikev2 sa
IPv4 Crypto IKEv2 SA
```

	Tunnel-id	Local	Remote	fvr/f/ivrf	Status
1	192.168.1.1/500	192.168.2.1/500	internet/local	READY	

Encr: AES-CBC, keysize: 256, PRF: SHA512, Hash: SHA512, DH Grp:5, Auth sign: PSK, Auth verify: PSK

Life/Active Time: 86400/128 sec

SiteA#show crypto ipsec sa detail

interface: Tunnell

Crypto map tag: Tunnell-head-0, local addr 192.168.1.1

protected vrf: local

**local ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/47/0)**

**remote ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/47/0)**

current\_peer 192.168.2.1 port 500

PERMIT, flags={origin\_is\_acl,}

**#pkts encaps: 25, #pkts encrypt: 25, #pkts digest: 25**

**#pkts decaps: 25, #pkts decrypt: 25, #pkts verify: 25**

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#pkts no sa (send) 0, #pkts invalid sa (rcv) 0

#pkts encaps failed (send) 0, #pkts decaps failed (rcv) 0

#pkts invalid prot (rcv) 0, #pkts verify failed: 0

#pkts invalid identity (rcv) 0, #pkts invalid len (rcv) 0

#pkts replay rollover (send): 0, #pkts replay rollover (rcv) 0

##pkts replay failed (rcv): 0

#pkts tagged (send): 0, #pkts untagged (rcv): 0

#pkts not tagged (send): 0, #pkts not untagged (rcv): 0

#pkts internal err (send): 0, #pkts internal err (rcv) 0

**local crypto endpt.: 192.168.1.1, remote crypto endpt.: 192.168.2.1**

plaintext mtu 1458, path mtu 1500, ip mtu 1500, ip mtu idb GigabitEthernet0/0

current outbound spi: 0xE0B1BF6B(3769745259)

PFS (Y/N): N, DH group: none

**inbound esp sas:**

**spi: 0xCA8E7D53(3398335827)**

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2010, flow\_id: Onboard VPN:10, sibling\_flags 80000000, crypto map: Tunnell-

head-0

sa timing: remaining key lifetime (k/sec): (4368363/3461)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

inbound ah sas:

inbound pcp sas:

**outbound esp sas:**

**spi: 0xE0B1BF6B(3769745259)**

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2009, flow\_id: Onboard VPN:9, sibling\_flags 80000000, crypto map: Tunnell-head-

0

sa timing: remaining key lifetime (k/sec): (4368363/3461)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

outbound ah sas:

outbound pcp sas:

SiteA#show crypto session remote 192.168.2.1 detail

Crypto session current status

Code: C - IKE Configuration mode, D - Dead Peer Detection  
K - Keepalives, N - NAT-traversal, T - cTCP encapsulation  
X - IKE Extended Authentication, F - IKE Fragmentation  
R - IKE Auto Reconnect, U - IKE Dynamic Route Update  
S - SIP VPN

Interface: Tunnell

Profile: IKEv2-Profile-1

Uptime: 00:02:35

Session status: **UP-ACTIVE**

Peer: 192.168.2.1 port 500 fvrf: internet ivrf: local

Phase1\_id: 192.168.2.1

Desc: (none)

Session ID: 3

IKEv2 SA: local 192.168.1.1/500 remote 192.168.2.1/500 Active

Capabilities:(none) connid:1 lifetime:23:57:25

IPSEC FLOW: permit 47 host 192.168.1.1 host 192.168.2.1

Active SAs: 2, origin: crypto map

Inbound: #pkts dec'ed 25 drop 0 life (KB/Sec) 4368363/3444

Outbound: #pkts enc'ed 25 drop 0 life (KB/Sec) 4368363/3444

**SiteB :**

**SiteB#show crypto ikev2 sa**

IPv4 Crypto IKEv2 SA

	Tunnel-id	Local	Remote	fvrf/ivrf	Status
1	192.168.2.1/500	192.168.1.1/500	internet/local	READY	

Encr: AES-CBC, keysize: 256, PRF: SHA512, Hash: SHA512, DH Grp:5, Auth sign: PSK, Auth verify: PSK  
Life/Active Time: 86400/90 sec

**SiteB#show crypto ipsec sa detail**

interface: Tunnell

Crypto map tag: Tunnell-head-0, local addr 192.168.2.1

protected vrf: local

**local ident (addr/mask/prot/port): (192.168.2.1/255.255.255.255/47/0)**

**remote ident (addr/mask/prot/port): (192.168.1.1/255.255.255.255/47/0)**

current\_peer 192.168.1.1 port 500

PERMIT, flags={origin\_is\_acl,}

**#pkts encaps: 25, #pkts encrypt: 25, #pkts digest: 25**

**#pkts decaps: 25, #pkts decrypt: 25, #pkts verify: 25**

#pkts compressed: 0, #pkts decompressed: 0

#pkts not compressed: 0, #pkts compr. failed: 0

#pkts not decompressed: 0, #pkts decompress failed: 0

#pkts no sa (send) 0, #pkts invalid sa (rcv) 0

#pkts encaps failed (send) 0, #pkts decaps failed (rcv) 0

#pkts invalid prot (rcv) 0, #pkts verify failed: 0

#pkts invalid identity (rcv) 0, #pkts invalid len (rcv) 0

#pkts replay rollover (send): 0, #pkts replay rollover (rcv) 0

##pkts replay failed (rcv): 0

#pkts tagged (send): 0, #pkts untagged (rcv): 0

#pkts not tagged (send): 0, #pkts not untagged (rcv): 0

#pkts internal err (send): 0, #pkts internal err (rcv) 0

**local crypto endpt.: 192.168.2.1, remote crypto endpt.: 192.168.1.1**

plaintext mtu 1458, path mtu 1500, ip mtu 1500, ip mtu idb GigabitEthernet0/0

current outbound spi: 0xCA8E7D53(3398335827)

PFS (Y/N): N, DH group: none

**inbound esp sas:**

**spi: 0xE0B1BF6B(3769745259)**

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2009, flow\_id: Onboard VPN:9, sibling\_flags 80000000, crypto map: Tunnell-head-

0

sa timing: remaining key lifetime (k/sec): (4251213/3468)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

inbound ah sas:

inbound pcp sas:

**outbound esp sas:**

**spi: 0xCA8E7D53(3398335827)**

transform: esp-256-aes esp-sha-hmac ,

in use settings ={Transport, }

conn id: 2010, flow\_id: Onboard VPN:10, sibling\_flags 80000000, crypto map: Tunnell-

head-0

sa timing: remaining key lifetime (k/sec): (4251213/3468)

IV size: 16 bytes

replay detection support: Y

Status: ACTIVE(ACTIVE)

outbound ah sas:

outbound pcp sas:

SiteB#**show crypto session remote 192.168.1.1 detail**

Crypto session current status

Code: C - IKE Configuration mode, D - Dead Peer Detection

K - Keepalives, N - NAT-traversal, T - cTCP encapsulation

X - IKE Extended Authentication, F - IKE Fragmentation

R - IKE Auto Reconnect

Interface: Tunnell

Profile: IKEv2-Profile-1

Uptime: 00:02:33

Session status: **UP-ACTIVE**

Peer: 192.168.1.1 port 500 fvrf: internet ivrf: local

Phase1\_id: 192.168.1.1

Desc: (none)

Session ID: 4

IKEv2 SA: local 192.168.2.1/500 remote 192.168.1.1/500 Active

Capabilities:(none) connid:1 lifetime:23:57:27

IPSEC FLOW: permit 47 host 192.168.2.1 host 192.168.1.1

Active SAs: 2, origin: crypto map

Inbound: #pkts dec'ed 25 drop 0 life (KB/Sec) 4251213/3447

Outbound: #pkts enc'ed 25 drop 0 life (KB/Sec) 4251213/3447

## Troubleshoot

This section provides information you can use to troubleshoot your configuration. Sample debug output is also shown.

### Troubleshooting Commands



Note: Refer to [Important Information on Debug Commands](#) before you use debug commands. If there are multiple tunnels configured on the router, you can use the following condition:

- **Debug crypto ikev2 internal**
- **Debug crypto ikev2 packet**

## Sample Debug Output

### SiteA Debugs :

```
*Jul 16 05:30:50.731: IKEv2: Got a packet from dispatcher
*Jul 16 05:30:50.731: IKEv2: Processing an item off the pak queue
*Jul 16 05:30:50.731: IKEv2-INTERNAL:% Getting preshared key by address 192.168.2.1
*Jul 16 05:30:50.731: IKEv2-INTERNAL:Adding Proposal default to toolkit policy
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(1): Choosing IKE profile IKEv2-Profile-1
*Jul 16 05:30:50.731: IKEv2-INTERNAL:New ikev2 sa request admitted
*Jul 16 05:30:50.731: IKEv2-INTERNAL:Incrementing outgoing negotiating sa count by one

*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: IDLE Event: EV_INIT_SA
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GET_IKE_POLICY
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_SET_POLICY
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Setting configured policies
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_CHK_AUTH4PKI
*Jul 16 05:30:50.731: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GEN_DH_KEY
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_NO_EVENT
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_OK_REC'D_DH_PUBKEY_RESP
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action_Null
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_GET_CONFIG_MODE
*Jul 16 05:30:50.791: IKEv2-INTERNAL:No config data to send to toolkit:
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=0000000000000000 (I) MsgID = 0 CurState: I_BLD_INIT Event:
EV_BLD_MSG
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: DELETE-REASON
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCOVPN-REV-02
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Sending DRU Handshake
*Jul 16 05:30:50.791: IKEv2-INTERNAL:(1): Sending custom vendor id : CISCO-DYNAMIC-ROUTE
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_SOURCE_IP
*Jul 16 05:30:50.791: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_DESTINATION_IP

*Jul 16 05:30:50.795: IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: SA, version: 2.0
Exchange type: IKE_SA_INIT, flags: INITIATOR Message id: 0, length: 550
Payload contents:
SA Next payload: KE, reserved: 0x0, length: 144
```

last proposal: 0x0, reserved: 0x0, length: 140  
Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 15 last transform: 0x3, reserved: 0x0:  
length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: SHA512  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: SHA384  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: SHA256  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: SHA1  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: MD5  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA512  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA384  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA256  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA96  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: MD596  
last transform: 0x3, reserved: 0x0: length: 8  
type: 4, reserved: 0x0, id: DH\_GROUP\_1536\_MODP/Group 5  
last transform: 0x0, reserved: 0x0: length: 8  
type: 4, reserved: 0x0, id: DH\_GROUP\_1024\_MODP/Group 2  
KE Next payload: N, reserved: 0x0, length: 200  
DH group: 5, Reserved: 0x0  
N Next payload: VID, reserved: 0x0, length: 36  
VID Next payload: VID, reserved: 0x0, length: 23  
VID Next payload: VID, reserved: 0x0, length: 19  
VID Next payload: VID, reserved: 0x0, length: 23  
VID Next payload: NOTIFY, reserved: 0x0, length: 21  
NOTIFY(NAT\_DETECTION\_SOURCE\_IP) Next payload: NOTIFY, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_SOURCE\_IP  
NOTIFY(NAT\_DETECTION\_DESTINATION\_IP) Next payload: NONE, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_DESTINATION\_IP

\*Jul 16 05:30:50.931: **IKEv2-INTERNAL:Got a packet from dispatcher**

\*Jul 16 05:30:50.931: **IKEv2-INTERNAL:Processing an item off the pak queue**

\*Jul 16 05:30:50.939: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: SA, version: 2.0**

**Exchange type: IKE\_SA\_INIT, flags: RESPONDER MSG-RESPONSE** Message id: 0, length: 431

**Payload contents:**

SA Next payload: KE, reserved: 0x0, length: 48  
last proposal: 0x0, reserved: 0x0, length: 44  
Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 4 last transform: 0x3, reserved: 0x0:  
length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 8  
type: 2, reserved: 0x0, id: SHA512  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA512  
last transform: 0x0, reserved: 0x0: length: 8  
type: 4, reserved: 0x0, id: DH\_GROUP\_1536\_MODP/Group 5  
KE Next payload: N, reserved: 0x0, length: 200  
DH group: 5, Reserved: 0x0

N Next payload: VID, reserved: 0x0, length: 36

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCO-DELETE-REASON  
VID Next payload: VID, reserved: 0x0, length: 23

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCOVPN-REV VID Next  
payload: VID, reserved: 0x0, length: 19

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:  
NOTIFY, reserved: 0x0, length: 21

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Notify Payload: NAT\_DETECTION\_SOURCE\_IP  
NOTIFY(NAT\_DETECTION\_SOURCE\_IP) Next payload: NOTIFY, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_SOURCE\_IP

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:Parse Notify Payload: NAT\_DETECTION\_DESTINATION\_IP  
NOTIFY(NAT\_DETECTION\_DESTINATION\_IP) Next payload: NONE, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_DESTINATION\_IP

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_WAIT\_INIT Event:  
EV\_RECV\_INIT

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing IKE\_SA\_INIT message

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_CHK4\_NOTIFY

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_VERIFY\_MSG

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_PROC\_MSG

\*Jul 16 05:30:50.939: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_DETECT\_NAT

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Process NAT discovery notify

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing nat detect src notify

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Remote address matched

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Processing nat detect dst notify

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Local address matched

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):No NAT found

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_CHK\_NAT\_T

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_PROC\_INIT Event:  
EV\_CHK\_CONFIG\_MODE

\*Jul 16 05:30:50.943: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event:  
**EV\_GEN\_DH\_SECRET**

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event:  
EV\_NO\_EVENT

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event:  
EV\_OK\_RECD\_DH\_SECRET\_RESP

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action\_Null

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event:  
**EV\_GEN\_SKEYID**

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):**Generate skeyid**

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event: EV\_DONE

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Cisco DeleteReason Notify is

enabled

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: INIT\_DONE Event:  
EV\_CHK4\_ROLE

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
EV\_GET\_CONFIG\_MODE

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:Sending config data to toolkit

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
EV\_CHK\_EAP

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
**EV\_GEN\_AUTH**

\*Jul 16 05:30:51.019: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
EV\_CHK\_AUTH\_TYPE

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
EV\_OK\_AUTH\_GEN

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 0 CurState: I\_BLD\_AUTH Event:  
EV\_SEND\_AUTH

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCO-GRANITE

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: INITIAL\_CONTACT

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: USE\_TRANSPORT\_MODE

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: SET\_WINDOW\_SIZE

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: ESP\_TFC\_NO\_SUPPORT

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:Construct Notify Payload: NON\_FIRST\_FRAGS

**Payload contents:**

VID Next payload: IDi, reserved: 0x0, length: 20

IDi Next payload: AUTH, reserved: 0x0, length: 12

Id type: IPv4 address, Reserved: 0x0 0x0

AUTH Next payload: CFG, reserved: 0x0, length: 72

Auth method PSK, reserved: 0x0, reserved 0x0

CFG Next payload: SA, reserved: 0x0, length: 304

cfg type: CFG\_REQUEST, reserved: 0x0, reserved: 0x0

\*Jul 16 05:30:51.023: SA Next payload: TSi, reserved: 0x0, length: 44

last proposal: 0x0, reserved: 0x0, length: 40

Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:  
length: 12

type: 1, reserved: 0x0, id: AES-CBC

last transform: 0x3, reserved: 0x0: length: 8

type: 3, reserved: 0x0, id: SHA96

last transform: 0x0, reserved: 0x0: length: 8

type: 5, reserved: 0x0, id: Don't use ESN

TSi Next payload: TSr, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.1.1, end addr: 192.168.1.1

TSr Next payload: NOTIFY, reserved: 0x0, length: 24

Num of TSs: 1, reserved 0x0, reserved 0x0

TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16

start port: 0, end port: 65535

start addr: 192.168.2.1, end addr: 192.168.2.1

NOTIFY(INITIAL\_CONTACT) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: INITIAL\_CONTACT

NOTIFY(USE\_TRANSPORT\_MODE) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: USE\_TRANSPORT\_MODE

NOTIFY(SET\_WINDOW\_SIZE) Next payload: NOTIFY, reserved: 0x0, length: 12

Security protocol id: Unknown - 0, spi size: 0, type: SET\_WINDOW\_SIZE

NOTIFY(ESP\_TFC\_NO\_SUPPORT) Next payload: NOTIFY, reserved: 0x0, length: 8

Security protocol id: Unknown - 0, spi size: 0, type: ESP\_TFC\_NO\_SUPPORT

NOTIFY(NON\_FIRST\_FRAGS) Next payload: NONE, reserved: 0x0, length: 8  
Security protocol id: Unknown - 0, spi size: 0, type: NON\_FIRST\_FRAGS

\*Jul 16 05:30:51.023: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: ENCR, version: 2.0**  
**Exchange type: IKE\_AUTH, flags: INITIATOR** Message id: 1, length: 640  
**Payload contents:**  
ENCR Next payload: VID, reserved: 0x0, length: 612

\*Jul 16 05:30:51.023: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: I\_WAIT\_AUTH Event:  
EV\_NO\_EVENT

\*Jul 16 05:30:51.023: **IKEv2-INTERNAL:Got a packet from dispatcher**  
\*Jul 16 05:30:51.023: **IKEv2-INTERNAL:Processing an item off the pak queue**

\*Jul 16 05:30:51.107: **IKEv2-PAK:(SESSION ID = 3,SA ID = 1):Next payload: ENCR, version: 2.0**  
**Exchange type: IKE\_AUTH, flags: RESPONDER MSG-RESPONSE** Message id: 1, length: 320  
**Payload contents:**

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:  
IDr, reserved: 0x0, length: 20  
IDr Next payload: AUTH, reserved: 0x0, length: 12  
Id type: IPv4 address, Reserved: 0x0 0x0  
AUTH Next payload: SA, reserved: 0x0, length: 72  
Auth method PSK, reserved: 0x0, reserved 0x0  
SA Next payload: TSi, reserved: 0x0, length: 44  
last proposal: 0x0, reserved: 0x0, length: 40  
Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:  
length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA96  
last transform: 0x0, reserved: 0x0: length: 8  
type: 5, reserved: 0x0, id: Don't use ESN  
TSi Next payload: TSr, reserved: 0x0, length: 24  
Num of TSs: 1, reserved 0x0, reserved 0x0  
TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16  
start port: 0, end port: 65535  
start addr: 192.168.1.1, end addr: 192.168.1.1  
TSr Next payload: NOTIFY, reserved: 0x0, length: 24  
Num of TSs: 1, reserved 0x0, reserved 0x0  
TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16  
start port: 0, end port: 65535  
start addr: 192.168.2.1, end addr: 192.168.2.1

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: USE\_TRANSPORT\_MODE  
NOTIFY(USE\_TRANSPORT\_MODE) Next payload: NOTIFY, reserved: 0x0, length: 8  
Security protocol id: Unknown - 0, spi size: 0, type: USE\_TRANSPORT\_MODE

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: SET\_WINDOW\_SIZE  
NOTIFY(SET\_WINDOW\_SIZE) Next payload: NOTIFY, reserved: 0x0, length: 12  
Security protocol id: Unknown - 0, spi size: 0, type: SET\_WINDOW\_SIZE

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: ESP\_TFC\_NO\_SUPPORT  
NOTIFY(ESP\_TFC\_NO\_SUPPORT) Next payload: NOTIFY, reserved: 0x0, length: 8  
Security protocol id: Unknown - 0, spi size: 0, type: ESP\_TFC\_NO\_SUPPORT

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:Parse Notify Payload: NON\_FIRST\_FRAGS  
NOTIFY(NON\_FIRST\_FRAGS) Next payload: NONE, reserved: 0x0, length: 8  
Security protocol id: Unknown - 0, spi size: 0, type: NON\_FIRST\_FRAGS

\*Jul 16 05:30:51.111: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: I\_WAIT\_AUTH Event:  
**EV\_RECV\_AUTH**

```

*Jul 16 05:30:51.111: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):Action: Action_Null
*Jul 16 05:30:51.123: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: READY Event:
EV_CHK_IKE_ONLY
*Jul 16 05:30:51.123: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (I) MsgID = 1 CurState: READY Event: EV_I_OK
*Jul 16 05:30:52.011: SM Trace-> SA: I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1
CurState: AUTH_DONE Event: EV_CHK4_ROLE
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READY Event: EV_R_OK
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READY Event: EV_NO_E
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:I_PROC_AUTH: EV_VERIFY_AUTH
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:I_PROC_AUTH
EVENT:EV_NOTIFY_AUTH_DONE
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState:AUTH_DONE Event
EV_CHK4_ROLE

*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READYEvent:
EV_CHK_IKE_ONLY
*Jul 16 05:30:52.027: IKEv2-INTERNAL:(SESSION ID = 3,SA ID = 1):SM Trace-> SA:
I_SPI=34CDD54C620910B0 R_SPI=F1A0F4AB68B75F00 (R) MsgID = 1 CurState: READYEvent: EV_I_OK

```

**SiteB Debugs:**

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*Jul 16 06:01:45.231: IKEv2-INTERNAL:Got a packet from dispatcher
*Jul 16 06:01:45.231: IKEv2-INTERNAL:Processing an item off the pak queue

*Jul 16 06:01:45.231: IKEv2-INTERNAL:New ikev2 sa request admitted
*Jul 16 06:01:45.231: IKEv2-INTERNAL:Incrementing incoming negotiating sa count by one

*Jul 16 06:01:45.231: IKEv2-PAK:Next payload: SA, version: 2.0 Exchange type: IKE_SA_INIT,
flags: INITIATOR Message id: 0, length: 550
Payload contents:
SA Next payload: KE, reserved: 0x0, length: 144
  last proposal: 0x0, reserved: 0x0, length: 140
  Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 15      last transform: 0x3, reserved: 0x0:
length: 12
    type: 1, reserved: 0x0, id: AES-CBC
    last transform: 0x3, reserved: 0x0: length: 12
    type: 1, reserved: 0x0, id: AES-CBC
    last transform: 0x3, reserved: 0x0: length: 8
    type: 2, reserved: 0x0, id: SHA1
    last transform: 0x3, reserved: 0x0: length: 12
    type: 1, reserved: 0x0, id: AES-CBC
    last transform: 0x3, reserved: 0x0: 1      last transform: 0x3, reserved: 0x0: length: 8
    type: 2, reserved: 0x0, id: MD5
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA512
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA384
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA256
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA96
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: MD596
    last transform: 0x3, reserved: 0x0: length: 8
    type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5

```

type: 2, reserved: 0x0, id: SHA512  
last trans0x0, length: 23  
KE Next payload: N, reserved: 0x0, length: 200  
DH group: 5, Reserved: 0x0  
N Next payload: VID, reserved: 0x0, length: 36

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCOVPN-REV VID Next payload: VID, reserved: 0x0, length: 19

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload: VID, reserved: 0x0, length: 23

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:form: 0x3, reserved: 0x0: length: 8

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Vendor Specific Payload: CISCO-DELETE-REASON VID Next payload: VID, reserved:

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Notify Payload: NAT\_DETECTION\_SOURCE\_IP NOTIFY(NAT\_DETECTION\_SOURCE\_IP) Next payload: NOTIFY, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_SOURCE\_IP

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Parse Notify Payload: NAT\_DETECTION\_DESTINATION\_IP NOTIFY(NAT\_DETECTION\_DESTINATION\_IP) Next payload: NONE, reserved: 0x0, length: 28  
Security protocol id: Unknown - 0, spi size: 0, type: NAT\_DETECTION\_DESTINATION\_IP

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: IDLE Event: **EV\_RECV\_INIT**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event:  
**EV\_VERIFY\_MSG**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event: **EV\_INSERT\_SA**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event:  
**EV\_GET\_IKE\_POLICY**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:Adding Proposal default to toolkit policy

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event: **EV\_PROC\_MSG**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event:  
**EV\_DETECT\_NAT**

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Process NAT discovery notify

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Processing nat detect src notify

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Remote address matched

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Processing nat detect dst notify

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Local address matched

\*Jul 16 06:01:45.231: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):No NAT found

\*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_INIT Event:

**EV\_CHK\_CONFIG\_MODE**  
\*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_BLD\_INIT Event:

**EV\_SET\_POLICY**  
\*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):**Setting configured policies**

\*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_BLD\_INIT Event:

**EV\_CHK\_AUTH4PKI**  
\*Jul 16 06:01:45.235: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_BLD\_INIT Event:

**EV\_GEN\_DH\_KEY**  
\*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_BLD\_INIT Event:

**EV\_NO\_EVENT**  
\*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_BLD\_INIT Event:

**EV\_OK\_REC'D\_DH\_PUBKEY\_RESP**

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*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action_Null
*Jul 16 06:01:45.295: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GEN_DH_SECRET
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_NO_EVENT
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_OK_REC'D_DH_SECRET_RESP
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action_Null
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GEN_SKEYID
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Generate skeyid
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_GET_CONFIG_MODE
*Jul 16 06:01:45.371: IKEv2-INTERNAL:No config data to send to toolkit:
*Jul 16 06:01:45.371: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R_BLD_INIT Event:
EV_BLD_MSG
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: DELETE-REASON
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: CISCOVPN-REV-02
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Vendor Specific Payload: (CUSTOM)
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_SOURCE_IP
*Jul 16 06:01:45.371: IKEv2-INTERNAL:Construct Notify Payload: NAT_DETECTION_DESTINATION_IP

*Jul 16 06:01:45.371: IKEv2-PAK:(SESSION ID = 4,SA ID = 1):Next payload: SA, version: 2.0
Exchange type: IKE_SA_INIT, flags: RESPONDER MSG-RESPONSE Message id: 0, length: 431
Payload contents:
SA Next payload: KE, reserved: 0x0, length: 48
  last proposal: 0x0, reserved: 0x0, length: 44
  Proposal: 1, Protocol id: IKE, SPI size: 0, #trans: 4    last transform: 0x3, reserved: 0x0:
length: 12
    type: 1, reserved: 0x0, id: AES-CBC
    last transform: 0x3, reserved: 0x0: length: 8
    type: 2, reserved: 0x0, id: SHA512
    last transform: 0x3, reserved: 0x0: length: 8
    type: 3, reserved: 0x0, id: SHA512
    last transform: 0x0, reserved: 0x0: length: 8
    type: 4, reserved: 0x0, id: DH_GROUP_1536_MODP/Group 5
KE Next payload: N, reserved: 0x0, length: 200
  DH group: 5, Reserved: 0x0
N Next payload: VID, reserved: 0x0, length: 36
VID Next payload: VID, reserved: 0x0, length: 23
VID Next payload: VID, reserved: 0x0, length: 19
VID Next payload: NOTIFY, reserved: 0x0, length: 21
NOTIFY(NAT_DETECTION_SOURCE_IP) Next payload: NOTIFY, reserved: 0x0, length: 28
  Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_SOURCE_IP
NOTIFY(NAT_DETECTION_DESTINATION_IP) Next payload: NONE, reserved: 0x0, length: 28
  Security protocol id: Unknown - 0, spi size: 0, type: NAT_DETECTION_DESTINATION_IP

*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event: EV_DONE
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Cisco DeleteReason Notify is
enabled
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event:
EV_CHK4_ROLE
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:
I_SPI=AA81AF8C052B480F R_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: INIT_DONE Event:
EV_START_TMR
*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

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I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 0 CurState: R\_WAIT\_AUTH Event:  
EV\_NO\_EVENT  
\*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):New ikev2 sa request admitted  
\*Jul 16 06:01:45.375: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Incrementing outgoing  
negotiating sa count by one  
  
\*Jul 16 06:01:45.390: **IKEv2-INTERNAL:Got a packet from dispatcher**  
\*Jul 16 06:01:45.390: **IKEv2-INTERNAL:Processing an item off the pak queue**  
  
\*Jul 16 06:01:45.375: **IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Next payload: ENCR, version: 2.0**  
**Exchange type: IKE\_AUTH, flags: INITIATOR** Message id: 1, length: 556  
**Payload contents:**  
\*Jul 16 06:01:45.375: IKEv2-INTERNAL:Parse Vendor Specific Payload: (CUSTOM) VID Next payload:  
IDi, reserved: 0x0, length: 20  
Payload contents:  
IDi Next payload: AUTH, reserved: 0x0, length: 12  
Id type: IPv4 address, Reserved: 0x0 0x0  
AUTH Next payload: CFG, reserved: 0x0, length: 72  
Auth method PSK, reserved: 0x0, reserved 0x0  
CFG Next payload: SA, reserved: 0x0, length: 304  
cfg type: CFG\_REQUEST, reserved: 0x0, reserved: 0x0  
SA Next payload: TSi, reserved: 0x0, length: 44  
last proposal: 0x0, reserved: 0x0, length: 40  
Proposal: 1, Protocol id: ESP, SPI size: 4, #trans: 3 last transform: 0x3, reserved: 0x0:  
length: 12  
type: 1, reserved: 0x0, id: AES-CBC  
last transform: 0x3, reserved: 0x0: length: 8  
type: 3, reserved: 0x0, id: SHA96  
last transform: 0x0, reserved: 0x0: length: 8  
type: 5, reserved: 0x0, id: Don't use ESN  
TSi Next payload: TSr, reserved: 0x0, length: 24  
Num of TSs: 1, reserved 0x0, reserved 0x0  
TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16  
start port: 0, end port: 65535  
start addr: 192.168.1.1, end addr: 192.168.1.1  
TSr Next payload: NOTIFY, reserved: 0x0, length: 24  
Num of TSs: 1, reserved 0x0, reserved 0x0  
TS type: TS\_IPV4\_ADDR\_RANGE, proto id: 47, length: 16  
start port: 0, end port: 65535  
start addr: 192.168.2.1, end addr: 192.168.2.1  
  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
**EV\_RECV\_AUTH**  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_CHK\_NAT\_T  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_PROC\_ID  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Received valid parameteres in  
process id  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_CHK\_IF\_PEER\_CERT\_NEEDS\_TO\_BE\_FETCHED\_FOR\_PROF\_SEL  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_GET\_POLICY\_BY\_PEERID  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_SET\_POLICY  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Setting configured policies  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:

EV\_VERIFY\_POLICY\_BY\_PEERID

\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_CHK\_AUTH4EAP  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_WAIT\_AUTH Event:  
EV\_CHK\_POLREQEAP  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK\_AUTH\_TYPE  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_GET\_PRESHR\_KEY  
\*Jul 16 06:01:45.463: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:

**EV\_VERIFY\_AUTH**

\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK4\_IC  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace->SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK\_REDIRECT  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Redirect check is not needed,  
skipping it  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_NOTIFY\_AUTH\_DONE  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:AAA group authorization is not configured  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:AAA user authorization is not configured  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK\_CONFIG\_MODE  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_SET\_REC'D\_CONFIG\_MODE  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:Received config data from toolkit:  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK\_GKM  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_CHK\_DIKE  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_PROC\_SA\_TS  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_NO\_EVENT  
\*Jul 16 06:01:45.467: IPSEC(ipsec\_get\_crypto\_session\_id): Invalid Payload Id  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:IPSEC accepted group 0  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_POLICY\_NEGOTIATED  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):Action: Action\_Null  
\*Jul 16 06:01:45.467: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_VERIFY\_AUTH Event:  
EV\_GET\_CONFIG\_MODE  
\*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_BLD\_AUTH Event:  
EV\_MY\_AUTH\_METHOD  
\*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:  
I\_SPI=AA81AF8C052B480F R\_SPI=53457A4ACA42FD10 (R) MsgID = 1 CurState: R\_BLD\_AUTH Event:  
EV\_GET\_PRESHR\_KEY  
\*Jul 16 06:01:45.471: IKEv2-INTERNAL:(SESSION ID = 4,SA ID = 1):SM Trace-> SA:

