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概要

この技術情報はクライアント、レイヤ2 トンネリング プロトコル アクセスコントレータ (LAC) の設定を説明し、始動にヘルプそのレイヤ2 トンネリング プロトコル ネットワークサーバ (LNS) は Virtual Private Dial-up Network (VPDN) トンネルにクライアントと LNS 間のマルチリンク ポイントツーポイント プロトコル (MLPPP) セッション構築しました。

前提条件

要件

この設定を行う前に、以下の要件を満たしていることを確認してください。

- エンドツーエンド レイヤ1 接続は稼働しています

使用するコンポーネント

このドキュメントは、特定のソフトウェアやハードウェアのバージョンに限定されるものではありません。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されたものです。このドキュメントで使用するすべてのデバイスは、クリアな (デフォルト) 設定で作業を開始しています。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分に理解しておく必要があります。

設定

注 このセクションで使用されているコマンドの詳細を調べるには、[Command Lookup Tool](#) ([登録ユーザ専用](#)) を使用してください。

ネットワーク図



設定

注：PPP またはマルチリンク PPP セッション開始時間の間の PPP 制御パケット交換の場合には、マルチリンク PPP セッションは CPE と LNS の間で、ない LAC ネゴシエートされます。LAC にマルチリンク PPP セッションについてのナレッジがありません。その結果、CPE が PPP-LCP セッションを始めるとき、LCP ネゴシエーションの一部として含まれているマルチリンク (Maximum Receive Reconstructed Unit [MRRU]) ネゴシエーションは LAC がまだ (一般的に事実である) の接続を LNS 確立しない場合失敗するかもしれません。LAC と LNS 間の IP 到達性が確立されるとき、LNS は CPE のマルチリンク (MRRU) LCP オプションを再取り決め 2 つのピアデバイスはそれからエンドツーエンド マルチリンク PPP セッションを設定できます。

クライアントコンフィギュレーション:

クライアント ルータの設定例を以下に示します。

```
interface Ethernet0/0

no ip address

    pppoe

PPPoE    1

interface Dialer1

bandwidth 64

ip address negotiated

encapsulation ppp

dialer pool 1

dialer idle-timeout 0

    30

ppp    30

ppp chap hostname user@cisco.com

ppp chap password cisco

ppp multilink

no cdp enable
```

LAC設定:

LAC ルータの設定の例はここに示されています:

```
hostname LAC
```

```
!  
vpdn enable  
!  
vpdn-group 1  
request-dialin  
protocol l2tp  
domain cisco.com  
IP 192.168.1.2  
l2tp  
!  
    bba pppoe  
virtual-template 1  
!  
interface Ethernet0/0  
no ip address  
    pppoe  
interface Ethernet1/0  
ip address 192.168.1.1 255.255.255.0  
interface Virtual-Template1  
no ip address  
ppp authentication chap  
ppp multilink
```

LNS 設定:

LNS ルータの設定の例はここに示されています:

```
vpdn enable  
!  
vpdn-group 1
```

```
accept-dialin
protocol l2tp
virtual-template 1
terminate-from hostname LAC
    lcp
l2tp
!
user@cisco.com cisco
int loopback0
ip address 10.10.10.10 255.255.255.0
interface Ethernet1/0
IP 192.168.1.2 255.255.255.0
interface Virtual-Template1
MTU 1492
ip unnumbered Loopback0
IP cisco
ppp authentication chap
ppp multilink
!
IP cisco 10.10.10.11 10.10.10.24
```

確認

次のデバッグはクライアント、LAC および LNS で有効になります:

- Debug ppp negotiation
- Debug pppoe event
- Debug ppp マルチリンクイベント
- Debug vpdn event
- デバッグ VPDN 呼出しイベント

クライアント ログ:

```
*Jan 14 11:01:12.744: PADI : = Ethernet0/0
*Jan 14 11:01:12.744: PPPoE 0: I PADO R:aabb.cc02.bd00 L:aabb.cc02.bc00
Et0/0
*Jan 14 11:01:14.824: PPPOE pado pado
*Jan 14 11:01:14.824: PPPoE OUT PADR
*Jan 14 11:01:14.825: PPPoE 9: I PAD R:aabb.cc02.bd00 L:aabb.cc02.bc00
Et0/0
*Jan 14 11:01:14.825: PPPoE IN PAD
*Jan 14 11:01:14.825: %DIALER-6-BIND: Di1 Vi3
*Jan 14 11:01:14.825: PPPoE
*Jan 14 11:01:14.825: PPPoE encaps
*Jan 14 11:01:14.825: [0]PPPoE 9: PPPoE
*Jan 14 11:01:14.834: %LINK-3-UPDOWN: Virtual-Access3
*Jan 14 11:01:14.834: Vi3 PPP: cstate
*Jan 14 11:01:14.834: Vi3 PPP: CstateUp
*Jan 14 11:01:14.834: PPP: [2A970D92E8]
*Jan 14 11:01:14.834: ppp14 PPP: Phase is ESTABLISHING
*Jan 14 11:01:14.834: Vi3 PPP: Using dialer call direction
*Jan 14 11:01:14.834: Vi3 PPP: Treating connection as a callout
*Jan 14 11:01:14.834: Vi3 PPP: handle[C2000013] id[14]
*Jan 14 11:01:14.834: Vi3 LCP: [[]]
*Jan 14 11:01:14.834: Vi3 PPP: No remote authentication for call-out
*Jan 14 11:01:14.834: Vi3 LCP: O CONFREQ [] ID 1 30 len
*Jan 14 11:01:14.834: Vi3 LCP: MagicNumber 0xBC220EF6 0x0506BC220EF6
*Jan 14 11:01:14.835: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.835: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.835: Vi3 LCP: [][REQsent ]
*Jan 14 11:01:14.835: Vi3 LCP: I CONFREQ [REQsent] ID 1 29 len
*Jan 14 11:01:14.835: Vi3 LCP: MRU 1492 0x010405D4
*Jan 14 11:01:14.835: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.835: Vi3 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0
*Jan 14 11:01:14.835: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.835: Vi3 LCP: EndpointDisc 1 LAC 0x1306014C4143
*Jan 14 11:01:14.835: Vi3 LCP: O CONFNAK [REQsent] ID 1 8 len
*Jan 14 11:01:14.835: Vi3 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.835: Vi3 LCP: [ ConfReq-][REQsent REQsent]
*Jan 14 11:01:14.835: Vi3 LCP: I CONFACK [REQsent] ID 1 30 len
*Jan 14 11:01:14.835: Vi3 LCP: MagicNumber 0xBC220EF6 0x0506BC220EF6
*Jan 14 11:01:14.835: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.835: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.835: Vi3 LCP: [ ConfAck][ACKrcvd REQsent]
*Jan 14 11:01:14.836: Vi3 LCP: I CONFREQ [ACKrcvd] ID 2 29 len
*Jan 14 11:01:14.836: Vi3 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.836: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.836: Vi3 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0
*Jan 14 11:01:14.836: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.836: Vi3 LCP: EndpointDisc 1 LAC 0x1306014C4143
*Jan 14 11:01:14.836: Vi3 LCP: O CONFACK [ACKrcvd] ID 2 29 len
*Jan 14 11:01:14.836: Vi3 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.836: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.836: Vi3 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0
```

```
*Jan 14 11:01:14.836: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.836: Vi3 LCP: EndpointDisc 1 LAC 0x1306014C4143
*Jan 14 11:01:14.836: Vi3 LCP: [ ConfReq+][ ACKRcvd]
*Jan 14 11:01:14.854: Vi3 PPP: Phase is AUTHENTICATING, by the peer
*Jan 14 11:01:14.854: Vi3 LCP: State is Open
*Jan 14 11:01:14.856: Vi3 CHAP: ID 1 len LAC 24
*Jan 14 11:01:14.856: Vi3 CHAP: CHAP
*Jan 14 11:01:14.856: Vi3 CHAP: CHAP
*Jan 14 11:01:14.856: Vi3 CHAP: O ID 1 len user@cisco.com 34
*Jan 14 11:01:14.861: Vi3 LCP: I CONFREQ [] ID 1 39 len
*Jan 14 11:01:14.861: Vi3 LCP: MRU 1492 0x010405D4
*Jan 14 11:01:14.861: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.861: Vi3 LCP: MagicNumber 0xBC21E526 0x0506BC21E526
*Jan 14 11:01:14.861: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.861: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.861: Vi3 PPP DISC: PPP
*Jan 14 11:01:14.861: PPP: AAA NET STOP
*Jan 14 11:01:14.861: Vi3 LCP: [LCP Reneg][]
*Jan 14 11:01:14.861: Vi3 LCP: [DOWN][]
*Jan 14 11:01:14.861: Vi3 PPP: Phase is DOWN
*Jan 14 11:01:14.861: PPP: [2A970D9898]
*Jan 14 11:01:14.861: ppp14 PPP: Phase is ESTABLISHING
*Jan 14 11:01:14.861: Vi3 PPP: Using dialer call direction
*Jan 14 11:01:14.861: Vi3 PPP: Treating connection as a callout
*Jan 14 11:01:14.861: Vi3 PPP: handle[2B000014] id[14]
*Jan 14 11:01:14.861: Vi3 LCP: [][]
*Jan 14 11:01:14.861: Vi3 PPP: No remote authentication for call-out
*Jan 14 11:01:14.861: Vi3 LCP: O CONFREQ [] ID 1 30 len
*Jan 14 11:01:14.861: Vi3 LCP: MagicNumber 0xBC220F12 0x0506BC220F12
*Jan 14 11:01:14.861: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.861: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.862: Vi3 LCP: [][REQsent ]
*Jan 14 11:01:14.862: Vi3 LCP: I CONFREQ [REQsent] ID 1 39 len
*Jan 14 11:01:14.862: Vi3 LCP: MRU 1492 0x010405D4
*Jan 14 11:01:14.862: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.862: Vi3 LCP: MagicNumber 0xBC21E526 0x0506BC21E526
*Jan 14 11:01:14.862: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.862: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.862: Vi3 PPP: user@cisco.com
*Jan 14 11:01:14.862: Vi3 LCP: O CONFNAK [REQsent] ID 1 8 len
*Jan 14 11:01:14.862: Vi3 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.862: Vi3 LCP: [ ConfReq-][REQsent REQsent]
*Jan 14 11:01:14.862: Vi3 LCP: I CONFACK [REQsent] ID 1 30 len
*Jan 14 11:01:14.862: Vi3 LCP: MagicNumber 0xBC220F12 0x0506BC220F12
*Jan 14 11:01:14.862: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.862: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.862: Vi3 LCP: [ ConfAck][ACKRcvd REQsent]
*Jan 14 11:01:14.862: Vi3 LCP: I CONFREQ [ACKRcvd] ID 2 39 len
*Jan 14 11:01:14.862: Vi3 LCP: MRU 1500 0x010405DC
```

```
*Jan 14 11:01:14.862: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.862: Vi3 LCP: MagicNumber 0xBC21E526 0x0506BC21E526
*Jan 14 11:01:14.862: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.862: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.862: Vi3 PPP: user@cisco.com
*Jan 14 11:01:14.862: Vi3 LCP: O CONFACK [ACKrcvd] ID 2 39 len
*Jan 14 11:01:14.862: Vi3 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.862: Vi3 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.862: Vi3 LCP: MagicNumber 0xBC21E526 0x0506BC21E526
*Jan 14 11:01:14.862: Vi3 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.862: Vi3 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267
*Jan 14 11:01:14.862: Vi3 LCP: [ ConfReq+][ ACKrcvd]
*Jan 14 11:01:14.884: Vi3 PPP: Phase is AUTHENTICATING, by the peer
*Jan 14 11:01:14.884: Vi3 LCP: State is Open
*Jan 14 11:01:14.895: Vi3 CHAP: ID 2 len LNS 27
*Jan 14 11:01:14.895: Vi3 CHAP: CHAP
*Jan 14 11:01:14.895: Vi3 CHAP: CHAP
*Jan 14 11:01:14.895: Vi3 CHAP: O ID 2 len user@cisco.com 34
*Jan 14 11:01:14.896: Vi3 CHAP: I ID 2 4 len
*Jan 14 11:01:14.896: Vi3 PPP: Phase is FORWARDING, Attempting Forward
*Jan 14 11:01:14.897: Vi3 PPP: LCP
*Jan 14 11:01:14.897: Vi3 MLP:
*Jan 14 11:01:14.897: Vi3 PPP: Phase is VIRTUALIZED
*Jan 14 11:01:14.897: Vi3 MLP:
*Jan 14 11:01:14.897: Vi3 MLP: vaccess
*Jan 14 11:01:14.897: Vi3 MLP: SSS
*Jan 14 11:01:14.897: Vi3 MLP: Di1
*Jan 14 11:01:14.897: Vi3 MLP: SSS
*Jan 14 11:01:14.897: Vi3 MLP: Di1
*Jan 14 11:01:14.897: Vi3 MLP: SSS bundle interface Vi4
*Jan 14 11:01:14.897: PPP: [2A970D95C0]
*Jan 14 11:01:14.897: ppp15 PPP: Phase is ESTABLISHING
*Jan 14 11:01:14.897: Vi4 MLP: 100000 64
*Jan 14 11:01:14.897: Vi4 MLP: frag
*Jan 14 11:01:14.897: Vi4 MLP: 100 1524 ms frag
*Jan 14 11:01:14.897: Vi4 MLP: 100 1524 ms frag
*Jan 14 11:01:14.897: %DIALER-6-BIND: Di1 Vi4
*Jan 14 11:01:14.897: Vi4 MLP: Di1
*Jan 14 11:01:14.897: Vi4 MLP: Vi3
*Jan 14 11:01:14.897: Vi4 MLP: 64 64
*Jan 14 11:01:14.897: Vi3 MLP: Init 1
*Jan 14 11:01:14.897: Vi4 MLP:
*Jan 14 11:01:14.897: Vi4 MLP: LNS Vi3
*Jan 14 11:01:14.897: Vi4 MLP: 100 1524 ms frag
*Jan 14 11:01:14.898: Vi3 MLP: SSS PPP handle[0x6F000015]
*Jan 14 11:01:14.898: %LINEPROTO-5-UPDOWN: Virtual-Access3
*Jan 14 11:01:14.898: Vi4 MLP:
*Jan 14 11:01:14.914: %LINK-3-UPDOWN: Virtual-Access4
*Jan 14 11:01:14.914: Vi4 PPP: MLP LCP
*Jan 14 11:01:14.914: Vi4 PPP: Phase is UP
*Jan 14 11:01:14.914: Vi4 IPCP: CP []
```

```
*Jan 14 11:01:14.914: Vi4 IPCP: [][]
*Jan 14 11:01:14.914: Vi4 IPCP: O CONFREQ [] ID 1 10 len
*Jan 14 11:01:14.914: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)
*Jan 14 11:01:14.914: Vi4 IPCP: [][REQsent ]
*Jan 14 11:01:14.915: Vi4 IPCP: I CONFREQ [REQsent] id 1 len 10
*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.10 0x03060A0A0A0A
*Jan 14 11:01:14.915: Vi4 IPCP: O CONFACK [REQsent] id 1 len 10
*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.10 0x03060A0A0A0A
*Jan 14 11:01:14.915: Vi4 IPCP: [ ConfReq+][ACKsent REQsent]
*Jan 14 11:01:14.915: %LINEPROTO-5-UPDOWN: Virtual-Access4
*Jan 14 11:01:14.915: Vi4 IPCP: I CONFNAK [ACKsent] ID 1 10 len
*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12
*Jan 14 11:01:14.915: Vi4 IPCP: O CONFREQ [ACKsent] ID 2 10 len
*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12
*Jan 14 11:01:14.915: Vi4 IPCP: [ ConfNak/Rej][ACKsent ACKsent]
*Jan 14 11:01:14.936: Vi4 IPCP: I CONFACK [ACKsent] ID 2 10 len
*Jan 14 11:01:14.936: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12
*Jan 14 11:01:14.936: Vi4 IPCP: [ ConfAck][ ACKsent]
*Jan 14 11:01:14.954: Vi4 IPCP: State is Open
*Jan 14 11:01:14.954: Di1 IPCP: IP 10.10.10.18
*Jan 14 11:01:14.954: AVL Di1: topoid 0 10.10.10.10
*Jan 14 11:01:14.954: Di1 IPCP: 10.10.10.10
```

Client#show ppp

Interface/ID OPEN+ Nego*

Vi4 IPCP+ LocalT 10.10.10.10 LNS

Vi3 LCP+ LocalT 10.10.10.10 LNS

Client#show PPP

Virtual-Access4

: LNS
:
: LNS
:
: [1] user@cisco.com
:
: user@cisco.com
:
: [1] user@cisco.com

00:00:17 64load 1/255

frag 1524 ms 12192

Dialer1

0/0 /

0 0

0/0 / 0

0x3 0x0

Member links: 1 255

00:00:17 Vi3

LAC :

*Jan 14 11:01:12.744: PPPoE 0: I PADI R:aabb.cc02.bc00 L: ffff.ffff.ffff
Et0/0

*Jan 14 11:01:12.744: : NULL

*Jan 14 11:01:12.744: PPPoE 0: O PADOR:aabb.cc02.bd00 L:aabb.cc02.bc00
Et0/0

*Jan 14 11:01:12.744: : NULL

*Jan 14 11:01:14.824: PPPoE 0: I PADR R:aabb.cc02.bc00 L:aabb.cc02.bd00
Et0/0

*Jan 14 11:01:14.824: : NULL

*Jan 14 11:01:14.824: PPPoE encaps

*Jan 14 11:01:14.824: [9]PPPoE 9: IE

*Jan 14 11:01:14.824: [9]PPPoE 9: AAA ID 17

*Jan 14 11:01:14.824: [9]PPPoE 9: AAA

*Jan 14 11:01:14.824: [9]PPPoE 9: SSS

*Jan 14 11:01:14.824: [9]PPPoE 9: : R:aabb.cc02.bd00 L:aabb.cc02.bc00
Et0/0

*Jan 14 11:01:14.825: [9]PPPoE 9: NAS_PORT_POLICY_INQUIRY SSS KEY

*Jan 14 11:01:14.825: PPP: [2A970D9898]

*Jan 14 11:01:14.825: ppp9 PPP: Phase is ESTABLISHING

*Jan 14 11:01:14.825: [9]PPPoE 9: PPP

*Jan 14 11:01:14.825: [9]PPPoE 9: SSS : [PROVISION]

*Jan 14 11:01:14.825: [9]PPPoE 9: PROVISION_PPP SSM

*Jan 14 11:01:14.825: [9]PPPoE 9: O PAD R:aabb.cc02.bc00
L:aabb.cc02.bd00 Et0/0

*Jan 14 11:01:14.825: ppp9 PPP: VPN

*Jan 14 11:01:14.825: ppp9 PPP: Treating connection as a callin

*Jan 14 11:01:14.825: ppp9 PPP: handle[B4000009] id[9]

*Jan 14 11:01:14.825: ppp9 LCP: [[]]

*Jan 14 11:01:14.825: ppp9 PPP LCP: []

*Jan 14 11:01:14.835: ppp9 LCP: I CONFREQ [] ID 1 30 len

*Jan 14 11:01:14.835: ppp9 LCP: MagicNumber 0xBC220EF6 0x0506BC220EF6

*Jan 14 11:01:14.835: ppp9 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.835: ppp9 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.835: ppp9 LCP: O CONFREQ [] ID 1 29 len

*Jan 14 11:01:14.835: ppp9 LCP: MRU 1492 0x010405D4

*Jan 14 11:01:14.835: ppp9 LCP: AuthProto CHAP (0x0305C22305)

*Jan 14 11:01:14.835: ppp9 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0

*Jan 14 11:01:14.835: ppp9 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.835: ppp9 LCP: EndpointDisc 1 LAC 0x1306014C4143

*Jan 14 11:01:14.835: ppp9 LCP: O CONFACK [] ID 1 30 len

*Jan 14 11:01:14.835: ppp9 LCP: MagicNumber 0xBC220EF6 0x0506BC220EF6

*Jan 14 11:01:14.835: ppp9 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.835: ppp9 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.835: ppp9 LCP: [ConfReq+][ACKsent]

*Jan 14 11:01:14.836: ppp9 LCP: I CONFNAK [ACKsent] ID 1 8 len

*Jan 14 11:01:14.836: ppp9 LCP: MRU 1500 0x010405DC

*Jan 14 11:01:14.836: ppp9 LCP: O CONFREQ [ACKsent] ID 2 29 len

*Jan 14 11:01:14.836: ppp9 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.836: ppp9 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.836: ppp9 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0
*Jan 14 11:01:14.836: ppp9 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.836: ppp9 LCP: EndpointDisc 1 LAC 0x1306014C4143
*Jan 14 11:01:14.836: ppp9 LCP: [ConfNak/Rej][ACKsent ACKsent]
*Jan 14 11:01:14.836: ppp9 LCP: I CONFACK [ACKsent] ID 2 29 len
*Jan 14 11:01:14.836: ppp9 LCP: MRU 1500 0x010405DC
*Jan 14 11:01:14.836: ppp9 LCP: AuthProto CHAP (0x0305C22305)
*Jan 14 11:01:14.836: ppp9 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0
*Jan 14 11:01:14.836: ppp9 LCP: MRRU 1524 (0x110405F4)
*Jan 14 11:01:14.836: ppp9 LCP: EndpointDisc 1 LAC 0x1306014C4143
*Jan 14 11:01:14.836: ppp9 LCP: [ConfAck][ACKsent]
*Jan 14 11:01:14.856: ppp9 PPP: Phase is AUTHENTICATING, by this end
*Jan 14 11:01:14.856: ppp9 CHAP: O CHALLENGE id 1 len 24 from "LAC"
*Jan 14 11:01:14.856: ppp9 LCP: State is Open
*Jan 14 11:01:14.856: ppp9 CHAP: I ID 1 len user@cisco.com 34
*Jan 14 11:01:14.856: ppp9 PPP: Phase is FORWARDING, Attempting Forward
*Jan 14 11:01:14.856: VPDN CALL [uid:9]:
*Jan 14 11:01:14.856: VPDN CALL [uid:9]:
*Jan 14 11:01:14.857: [9]PPPoE 9: IE NAS
*Jan 14 11:01:14.857: VPDN uid:9 Obtained TX(10000000) RX(10000000)
*Jan 14 11:01:14.857: VPDN uid:9 Obtained TX(10000000) RX(10000000)
*Jan 14 11:01:14.857: VPDN uid:9 L2TUN F600000C
*Jan 14 11:01:14.857: L2-L2 VPDN uid:9 dataplaneidb
*Jan 14 11:01:14.857: VPDN MGR [uid:9]: 192.168.1.2
*Jan 14 11:01:14.857: [9]PPPoE 9: LCP_NEGOTIATION PPP

```
*Jan 14 11:01:14.857: [9]PPPoE 9: SSS :
*Jan 14 11:01:14.857: [9]PPPoE 9: SSS
*Jan 14 11:01:14.859: VPDN L2TUN
*Jan 14 11:01:14.859: VPDN uid:9 swidb
*Jan 14 11:01:14.859: [9]PPPoE 9: SSS : BOUND
*Jan 14 11:01:14.859: [9]PPPoE 9: SSS
*Jan 14 11:01:14.859: VPDN L2TUN
*Jan 14 11:01:14.859: VPDN MGR [uid:9]: user@cisco.com
*Jan 14 11:01:14.859: VPDN uid:9 VPDN
*Jan 14 11:01:14.859: VPDN CALL [uid:9]:
*Jan 14 11:01:14.860: ppp9 PPP: Phase is FORWARDED, Session Forwarded
*Jan 14 11:01:14.860: [9]PPPoE 9: LCP_NEGOTIATION PPP
*Jan 14 11:01:14.860: [9]PPPoE 9:
```

LAC#show ppp

Interface/ID OPEN+ Nego*

0xB4000009 LCP+ CHAP* Fwded 0.0.0.0 user@cisco.com

LAC#show PPP

LNS :

```
*Jan 14 11:01:14.858: VPDN L2TUN
*Jan 14 11:01:14.859: VPDN uid:13 L2TUN
*Jan 14 11:01:14.859: L2-L2 VPDN uid:13 dataplaneidb
*Jan 14 11:01:14.860: VPDN L2TUN
*Jan 14 11:01:14.860: VPDN uid:13 VPDN
```

*Jan 14 11:01:14.860: PPP: [2A970D95C0]

*Jan 14 11:01:14.860: ppp13 PPP: Phase is ESTABLISHING

*Jan 14 11:01:14.860: ppp13 LCP: [[]]

*Jan 14 11:01:14.860: ppp13 LCP: rcvd CONFACK len 29

*Jan 14 11:01:14.861: ppp13 LCP: MRU 1500 0x010405DC

*Jan 14 11:01:14.861: ppp13 LCP: AuthProto CHAP (0x0305C22305)

*Jan 14 11:01:14.861: ppp13 LCP: MagicNumber 0xBC21F6F0 0x0506BC21F6F0

*Jan 14 11:01:14.861: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.861: ppp13 LCP: EndpointDisc 1 LAC 0x1306014C4143

*Jan 14 11:01:14.861: ppp13 PPP: rcv CONFACK LCP

*Jan 14 11:01:14.861: ppp13 LCP: CONFACK len 30

*Jan 14 11:01:14.861: ppp13 LCP: MagicNumber 0xBC220EF6 0x0506BC220EF6

*Jan 14 11:01:14.861: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.861: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.861: ppp13 LCP: [DOWN][]

*Jan 14 11:01:14.861: ppp13 LCP: [[]]

*Jan 14 11:01:14.861: ppp13 LCP: [[]]

*Jan 14 11:01:14.861: ppp13 LCP: O CONFREQ [] ID 1 39 len

*Jan 14 11:01:14.861: ppp13 LCP: MRU 1492 0x010405D4

*Jan 14 11:01:14.861: ppp13 LCP: AuthProto CHAP (0x0305C22305)

*Jan 14 11:01:14.861: ppp13 LCP: MagicNumber 0xBC21E526 0x0506BC21E526

*Jan 14 11:01:14.861: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.861: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.861: ppp13 LCP: [[]REQsent]

*Jan 14 11:01:14.862: ppp13 LCP: I CONFREQ [REQsent] ID 1 30 len

*Jan 14 11:01:14.862: ppp13 LCP: MagicNumber 0xBC220F12 0x0506BC220F12

*Jan 14 11:01:14.862: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.862: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.862: ppp13 PPP: user@cisco.com

*Jan 14 11:01:14.862: ppp13 LCP: O CONFACK [REQsent] ID 1 30 len

*Jan 14 11:01:14.862: ppp13 LCP: MagicNumber 0xBC220F12 0x0506BC220F12

*Jan 14 11:01:14.862: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.862: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.862: ppp13 LCP: [ConfReq+][ACKsent REQsent]

*Jan 14 11:01:14.862: ppp13 LCP: I CONFNAK [ACKsent] ID 1 8 len

*Jan 14 11:01:14.862: ppp13 LCP: MRU 1500 0x010405DC

*Jan 14 11:01:14.862: ppp13 LCP: O CONFREQ [ACKsent] ID 2 39 len

*Jan 14 11:01:14.862: ppp13 LCP: MRU 1500 0x010405DC

*Jan 14 11:01:14.862: ppp13 LCP: AuthProto CHAP (0x0305C22305)

*Jan 14 11:01:14.862: ppp13 LCP: MagicNumber 0xBC21E526 0x0506BC21E526

*Jan 14 11:01:14.862: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.862: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.862: ppp13 LCP: [ConfNak/Rej][ACKsent ACKsent]

*Jan 14 11:01:14.863: ppp13 LCP: I CONFACK [ACKsent] ID 2 39 len

*Jan 14 11:01:14.863: ppp13 LCP: MRU 1500 0x010405DC

*Jan 14 11:01:14.863: ppp13 LCP: AuthProto CHAP (0x0305C22305)

*Jan 14 11:01:14.863: ppp13 LCP: MagicNumber 0xBC21E526 0x0506BC21E526

*Jan 14 11:01:14.863: ppp13 LCP: MRRU 1524 (0x110405F4)

*Jan 14 11:01:14.863: ppp13 LCP: EndpointDisc 1 user@cisco.com
0x1310017573657240737572662E6F7267

*Jan 14 11:01:14.863: ppp13 LCP: [ConfAck][ACKsent]

*Jan 14 11:01:14.895: ppp13 PPP: Phase is AUTHENTICATING, by this end

*Jan 14 11:01:14.895: ppp13 CHAP: O ID 2 len LNS 27

*Jan 14 11:01:14.895: ppp13 LCP: State is Open

*Jan 14 11:01:14.895: ppp13 CHAP: I ID 2 len user@cisco.com 34

*Jan 14 11:01:14.895: ppp13 PPP: Phase is FORWARDING, Attempting Forward

*Jan 14 11:01:14.895: ppp13 PPP: Phase is AUTHENTICATING,
Unauthenticated User

*Jan 14 11:01:14.895: ppp13 PPP: Phase is FORWARDING, Attempting Forward

*Jan 14 11:01:14.896: VPDN uid:13 user@cisco.com 10000 /

*Jan 14 11:01:14.896: user@cisco.com VPDN Vi3 10000 /

L2X_ADJ: Vi3:allocated ctx 1

*Jan 14 11:01:14.896: VPDN L2TUN

*Jan 14 11:01:14.896: Vi3 PPP: Phase is AUTHENTICATING, Authenticated
User

*Jan 14 11:01:14.896: Vi3 CHAP: O SUCCESS id 2 len 4

*Jan 14 11:01:14.896: Vi3 MLP:

*Jan 14 11:01:14.896: Vi3 PPP: Phase is VIRTUALIZED

*Jan 14 11:01:14.896: Vi3 MLP:

*Jan 14 11:01:14.896: Vi3 MLP: vaccess

*Jan 14 11:01:14.896: Vi3 MLP: SSS

*Jan 14 11:01:14.896: Vi3 MLP: Virtual-AccessVirtual-template 1

*Jan 14 11:01:14.897: Vi3 MLP: SSS

*Jan 14 11:01:14.897: Vi3 MLP: Virtual-AccessVirtual-template 1

*Jan 14 11:01:14.897: %LINK-3-UPDOWN: Virtual-Access3

*Jan 14 11:01:14.897: Vi3 MLP: SSS bundle interface Vi4

*Jan 14 11:01:14.897: PPP: [2A970D9898]

*Jan 14 11:01:14.897: ppp14 PPP: Phase is ESTABLISHING

*Jan 14 11:01:14.897: Vi4 MLP: 100000 10000

*Jan 14 11:01:14.897: Vi4 MLP: Vi3

*Jan 14 11:01:14.897: Vi3 MLP: frag 37492 1488 MTU

*Jan 14 11:01:14.897: Vi4 MLP: 10000 10000

*Jan 14 11:01:14.897: Vi3 MLP: Init 1

*Jan 14 11:01:14.897: Vi4 MLP: user@cisco.com Vi3

*Jan 14 11:01:14.898: Vi3 MLP: SSS PPP handle[0x5900000E]

*Jan 14 11:01:14.898: %LINEPROTO-5-UPDOWN: Virtual-Access3

*Jan 14 11:01:14.898: Vi4 MLP:

*Jan 14 11:01:14.915: %LINK-3-UPDOWN: Virtual-Access4

*Jan 14 11:01:14.915: Vi4 PPP: MLP LCP

*Jan 14 11:01:14.915: Vi3 PPP: IPCP code[1] id[1]

*Jan 14 11:01:14.915: Vi4 PPP: Phase is UP

*Jan 14 11:01:14.915: Vi4 IPCP: CP []

*Jan 14 11:01:14.915: Vi4 IPCP: [[]]

*Jan 14 11:01:14.915: Vi4 IPCP: O CONFREQ [] ID 1 10 len

*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.10 0x03060A0A0A0A

*Jan 14 11:01:14.915: Vi4 IPCP: [][REQsent]

*Jan 14 11:01:14.915: Vi3 PPP: Process pending ncp packets

*Jan 14 11:01:14.915: Vi3 IPCP: Vi4

*Jan 14 11:01:14.915: Vi4 IPCP: I CONFREQ [REQsent] id 1 len 10

*Jan 14 11:01:14.915: Vi4 IPCP: Address 0.0.0.0 (0x030600000000)

*Jan 14 11:01:14.915: Vi4 IPCP : 0.0.0.00.0.0.0

*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.18

*Jan 14 11:01:14.915: Vi4 IPCP: O CONFNAK [REQsent] ID 1 10 len

*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12

*Jan 14 11:01:14.915: Vi4 IPCP: [ConfReq-][REQsent REQsent]

*Jan 14 11:01:14.915: Vi4 IPCP: I CONFACK [REQsent] id 1 len 10

*Jan 14 11:01:14.915: Vi4 IPCP: 10.10.10.10 0x03060A0A0A0A


```
*Jan 14 11:01:14.915: Vi4 IPCP: [ ConfAck][ACKrcvd REQsent]
*Jan 14 11:01:14.916: %LINEPROTO-5-UPDOWN: Virtual-Access4
*Jan 14 11:01:14.936: Vi4 IPCP: I CONFREQ [ACKrcvd] ID 2 10 len
*Jan 14 11:01:14.936: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12
*Jan 14 11:01:14.936: Vi4 IPCP: O CONFACK [ACKrcvd] ID 2 10 len
*Jan 14 11:01:14.936: Vi4 IPCP: 10.10.10.18 0x03060A0A0A12
*Jan 14 11:01:14.936: Vi4 IPCP: [ ConfReq+][ ACKrcvd]
*Jan 14 11:01:14.965: Vi4 IPCP: State is Open
*Jan 14 11:01:14.965: AVL Vi4: topoid 0 10.10.10.18
*Jan 14 11:01:14.965: Vi4 IPCP: 10.10.10.18
```

LNS#show ppp

Interface/ID OPEN+ Nego*


```
Vi4 IPCP+ LocalT 10.10.10.18 user@cisco.com
Vi3 LCP+ CHAP+ LocalT 10.10.10.18 user@cisco.com
```

LNS#show PPP

```
Virtual-Access4
: user@cisco.com
: user@cisco.com
: [1] user@cisco.com
: LNS
: [1] user@cisco.com
00:00:10 10000load 1/255
frag 15 ms 12192
```

0 0

0/0 / 0

0x0 0x3

Member links: 1 255

LAC:Vi3 192.168.1.100:00:10 37500 1488 frag

関連情報

- [クライアント開始ダイヤルイン VPDN トンネリングの設定](#)