

Como configurar a autenticação de protocolo de túnel da camada 2 com TACACS+

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[Introdução](#)

Este documento descreve como configurar o protocolo de túnel da camada 2 (L2TP) com TACACS+. Inclui configurações de amostra para server do L2TP Access Concentrator (LAC) TACACS+, server do L2TP Network Server (LNS) TACACS+, e Roteadores.

[Pré-requisitos](#)

[Requisitos](#)

Não existem requisitos específicos para este documento.

[Componentes Utilizados](#)

As informações neste documento são baseadas nestas versões de software e hardware:

- Dois Cisco 2511 Router
- Software Cisco IOS® versão 12.0(2).T
- Cisco UNIX seguro, Cisco Windows seguro, ou freeware TACACS+

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

[Convenções](#)

Para obter mais informações sobre convenções de documento, consulte as [Convenções de dicas técnicas Cisco](#).

[Configurar](#)

Nesta seção, você encontrará informações para configurar os recursos descritos neste documento.

Nota: Para localizar informações adicionais sobre os comandos usados neste documento, utilize a Ferramenta Command Lookup (somente clientes [registrados](#)).

[Diagrama de Rede](#)

Este documento utiliza a configuração de rede mostrada neste diagrama.

[TACACS+ Configurações do servidor](#)

[Configuração de LAC - Cisco UNIX seguro](#)

```
# ./ViewProfile -p 9900 -u rtp.cisco.com user = rtp.cisco.com{
service=ppp {
protocol=vpdn {
set tunnel-type=l2tp
set tunnel-id=rtp_tunnel
set ip-addresses="10.31.1.56"
}
}

# ./ViewProfile -p 9900 -u rtp_tunnel
user = rtp_tunnel{
password = chap "FGHIJ"
service=ppp {
protocol=lcp {
}
protocol=ip {
}
}
}
```

[Configuração de LNS - Cisco UNIX seguro](#)

```

# ./ViewProfile -p 9900 -u janedoe@rtp.cisco.com
user = janedoe@rtp.cisco.com{
password = chap "rtprules"
service=ppp {
protocol=lcp {
}
}
protocol=ip {
}
}

}
# ./ViewProfile -p 9900 -u ABCDE
user = ABCDE{
password = chap "FGHIJ"
service=ppp {
protocol=lcp {
}
}
protocol=ip {
}
}

}

```

[Configuração de LAC - Cisco Windows seguro](#)

Termine estas etapas para configurar o LAC em Cisco Windows seguro:

1. Estabelecer o rtp_tunnel do usuário como um usuário normal PPP (a senha e/ou RACHA a senha na instalação de usuário).
2. Põe o usuário em group_1 e verifique o serviço **PPP/IP**. Verifique o **PPP/LCP** se essa caixa é indicada.
3. Estabelecer o usuário rtp.cisco.com. A senha é “não se importa.”
4. Se algumas opções não são indicadas nas configurações de grupo, vá à **configuração da interface** e selecione as caixas para consegui-las aparecer.
5. Põe o usuário em group_2 e verifique o serviço **PPP/VPDN**. A túnel-identificação é **rtp_tunnel**, a lista de endereço IP é **10.31.1.56**, e na caixa retangular do atributo feito sob encomenda embaixo, o tipo **tunnel-type=l2tp**.

[Configuração de LNS - Cisco Windows seguro](#)

Termine estas etapas para configurar o LNS para Cisco Windows seguro:

1. Estabelecer o ABCDE dos usuários” e “o janedoe@rtp.cisco.com” como usuários normais PPP (a senha e/ou RACHA a senha na instalação de usuário).
2. Põe os usuários em group_3 e verifique o serviço **PPP/IP**. Verifique o **PPP/LCP** se essa caixa é indicada.

[Configuração de freeware LAC TACACS+](#)

```

user = rtp.cisco.com {
service = ppp protocol = vpdn {
tunnel-type = l2tp
tunnel-id = rtp_tunnel
ip-addresses = "10.31.1.56"
}
}

```

```
}  
  
user = rtp_tunnel {  
  chap = cleartext "FGHIJ"  
  service = ppp protocol = ip {  
    default attribute = permit  
  }  
}
```

Configuração de freeware LNS TACACS+

```
key = "cisco"
```

```
user = janedoe@rtp.cisco.com {  
  chap = cleartext "rtprules"  
  service = ppp protocol = ip {  
    default attribute = permit  
  }  
}
```

```
user = ABCDE {  
  chap = cleartext "FGHIJ"  
  service = ppp protocol = ip {  
    default attribute = permit  
  }  
}
```

Configurações do Roteador

Configuração do roteador de LAC

```
version 12.0  
service timestamps debug datetime  
service timestamps log uptime  
no service password-encryption  
!  
hostname LAC  
!  
aaa new-model  
aaa authentication ppp default if-needed tacacs+  
aaa authorization network default tacacs+  
aaa accounting network default start-stop tacacs+  
enable secret level 7 5 $1$Dj3K$9jkyuJR6fJV2JO./Qt01C1  
enable password ww  
!  
username john password 0 doe  
ip subnet-zero  
no ip domain-lookup  
!  
vpdn enable  
!  
vpdn search-order domain  
!  
interface Loopback0  
no ip address  
no ip directed-broadcast  
!  
interface Ethernet0  
ip address 10.31.1.144 255.255.255.0  
no ip directed-broadcast  
!  
interface Serial0  
no ip address  
no ip directed-broadcast
```

```
no ip mroute-cache
shutdown
!
interface Serial1
no ip address
no ip directed-broadcast
shutdown
!
interface Async1
ip unnumbered Ethernet0
no ip directed-broadcast
ip tcp header-compression passive
encapsulation ppp
async mode dedicated
peer default ip address pool default
ppp authentication chap
!
ip local pool default 10.5.5.5 10.5.5.50
ip classless
ip route 0.0.0.0 0.0.0.0 10.31.1.1
!
tacacs-server host 171.68.118.106
tacacs-server key cisco
!
line con 0
transport input none
line 1
exec-timeout 0 0
autoselect during-login
autoselect ppp
modem Dialin
transport preferred none
transport output none
speed 38400
flowcontrol hardware
line 2 16
modem InOut
transport input all
speed 38400
flowcontrol hardware
line aux 0
line vty 0 4
password WW
!
end
```

Configuração do roteador de LNS

```
version 12.0
service timestamps debug datetime
service timestamps log uptime
no service password-encryption
!
hostname LNS
!
aaa new-model
aaa authentication ppp default if-needed tacacs+
aaa authorization network default tacacs+
aaa accounting network default start-stop tacacs+
enable secret 5 $1$wfMI$ixUG9hw7yhmsv.87.krpZ1
enable password WW
!
username john password 0 doe
ip subnet-zero
no ip domain-lookup
```

```
!  
vpdn enable  
!  
vpdn-group 1  
accept dialin l2tp virtual-template 1 remote rtp_tunnel  
local name ABCDE  
!  
interface Ethernet0  
ip address 10.31.1.56 255.255.255.0  
no ip directed-broadcast  
!  
interface Virtual-Template1  
ip unnumbered Ethernet0  
no ip directed-broadcast  
peer default ip address pool default  
ppp authentication chap  
!  
interface Serial0  
no ip address  
no ip directed-broadcast  
no ip mroute-cache  
shutdown  
!  
interface Serial1  
no ip address  
no ip directed-broadcast  
shutdown  
!  
interface Async1  
ip unnumbered Ethernet0  
no ip directed-broadcast  
ip tcp header-compression passive  
encapsulation ppp  
async mode dedicated  
peer default ip address pool setup_pool  
ppp authentication chap pap  
!  
!  
!  
!  
ip local pool default 10.6.1.1 10.6.1.2  
ip classless  
ip route 0.0.0.0 0.0.0.0 10.31.1.1  
!  
tacacs-server host 171.68.118.101  
tacacs-server key cisco  
!  
line con 0  
transport input none  
line 1 8  
autoselect during-login  
autoselect ppp  
modem Dialin  
speed 115200  
flowcontrol hardware  
line aux 0  
line vty 0 4  
password WW  
!  
end
```

[Verificar](#)

[Resultado do comando show em ambos os roteadores](#)

Esta seção fornece informações que você pode usar para confirmar se sua configuração está funcionando adequadamente.

A [Output Interpreter Tool \(somente clientes registrados\)](#) oferece suporte a determinados comandos show, o que permite exibir uma análise da saída do comando show.

[Roteador LAC](#)

```
LAC#show vpdn session L2TP Session Information (Total tunnels=1 sessions=1) LocID RemID TunID
Intf Username State Last Chg 1 1 76 As1 janedoe@rtp.c est 00:00:32 % No active L2F tunnels
LAC#show vpdn tunnel L2TP Tunnel Information (Total tunnels=1 sessions=1) LocID RemID Remote
Name State Remote Address Port Sessions 76 58 ABCDE est 10.31.1.56 1701 1 % No active L2F
tunnels
```

[Roteador de LNS](#)

```
LNS#show vpdn session L2TP Session Information (Total tunnels=1 sessions=1) LocID RemID TunID
Intf Username State Last Chg 1 1 58 V1l janedoe@rtp.c est 00:01:55 % No active L2F tunnels
LNS#show vpdn tunnel L2TP Tunnel Information (Total tunnels=1 sessions=1) LocID RemID Remote
Name State Remote Address Port Sessions 58 76 rtp_tunnel est 10.31.1.144 1701 1 % No active L2F
tunnels
```

[Mostrar saída da versão dos dois roteadores](#)

```
LAC#show version Cisco Internetwork Operating System Software IOS (tm) 2500 Software (C2500-IS-
L), Version 12.0(2)T, RELEASE SOFTWARE (fc1) Copyright (c) 1986-1998 by cisco Systems, Inc.
Compiled Wed 09-Dec-98 02:31 by dschwart Image text-base: 0x030403B0, data-base: 0x00001000 ROM:
System Bootstrap, Version 11.0(10c), SOFTWARE BOOTFLASH: 3000 Bootstrap Software (IGS-BOOT-R),
Version 11.0(10c), RELEASE SOFTWARE (fc1) LAC uptime is 20 hours, 22 minutes System restarted by
reload at 16:13:55 UTC Fri Jan 29 1999 System image file is "flash:c2500-is-1.120-2.T" cisco
2511 (68030) processor (revision M) with 14336K/2048K bytes of memory. Processor board ID
07041186, with hardware revision 00000000 Bridging software. X.25 software, Version 3.0.0. 1
Ethernet/IEEE 802.3 interface(s) 2 Serial network interface(s) 16 terminal line(s) 32K bytes of
non-volatile configuration memory. 16384K bytes of processor board System flash (Read ONLY)
Configuration register is 0x2102
```

[O que pode dar errado - debug ruim a partir do LAC](#)

Este resultado do debug inclui os comentários em onde a sequência para quando o roteador é desconfigurado.

```
LAC#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LAC# Jan 30 12:17:09: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
20:03:18: %LINK-3-UPDOWN: Interface Async1, changed state to up Jan 30 12:17:09: As1 VPDN:
Looking for tunnel -- rtp.cisco.com -- Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1
Jan 30 12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0
Jan 30 12:17:09: AAA/AUTHEN: create_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1'
rem_addr='' authen_type=NONE service=LOGIN priv=0 Jan 30 12:17:09: AAA/AUTHOR/VPDN (898425447):
Port='Async1' list='default' service=NET Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447)
user='rtp.cisco.com' Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV service=ppp Jan 30
12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN
(898425447) found list "default" Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) Method=TACACS+
```

Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): user=rtp.cisco.com Jan 30 12:17:09:
AAA/AUTHOR/TAC+: (898425447): send AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447):
send AV protocol=vpdn Jan 30 12:17:09: TAC+: (898425447): received author response status =
PASS_ADD Jan 30 12:17:09: AAA/AUTHOR (898425447): Post authorization status = PASS_ADD Jan 30
12:17:09: AAA/AUTHOR/VPDN: Processing AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/VPDN:
Processing AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-type=l2tp Jan
30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-id=rtp_tunnel *!--- If the wrong tunnel
termination IP address !--- is in the profile: Jan 30 12:56:30: AAA/AUTHOR/VPDN: Processing AV
ip-addresses=1.1.1.1* Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.31.1.56 Jan
30 12:17:09: As1 VPDN: Get tunnel info for rtp.cisco.com with LAC rtp_tunnel, IP 10.31.1.56 Jan
30 12:17:09: AAA/AUTHEN: free_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1'
rem_addr='' authen_type=NONE service=LOGIN priv=0 *!--- If the wrong tunnel termination IP !---
address is in the profile: Jan 30 12:56:30: As1 VPDN: Forward to address 1.1.1.1 !--- The
connection eventually drops on this end and no !--- debug is seen on the other end.* Jan 30
12:17:09: As1 VPDN: Forward to address 10.31.1.56 Jan 30 12:17:09: As1 VPDN: Forwarding... Jan
30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1 Jan 30 12:17:09: AAA: name=Async1
flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:09: AAA/AUTHEN:
create_user (0x22CDEC) user='janedoe@rtp.cisco.com' ruser='' port='Async1' rem_addr='async'
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: As1 VPDN: Bind interface direction=1 Jan 30
12:17:09: Tnl/Cl 74/1 L2TP: Session FS enabled Jan 30 12:17:09: Tnl/Cl 74/1 L2TP: Session state
change from idle to wait-for-tunnel Jan 30 12:17:09: As1 74/1 L2TP: Create session Jan 30
12:17:09: Tnl 74 L2TP: SM State idle Jan 30 12:17:09: Tnl 74 L2TP: O SCCRQ Jan 30 12:17:09: Tnl
74 L2TP: Tunnel state change from idle to wait-ctl-reply Jan 30 12:17:09: Tnl 74 L2TP: SM State
wait-ctl-reply Jan 30 12:17:09: As1 VPDN: janedoe@rtp.cisco.com is forwarded Jan 30 12:17:10:
Tnl 74 L2TP: I SCCRP from ABCDE Jan 30 12:17:10: Tnl 74 L2TP: Got a challenge from remote peer,
ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN:
create_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): port='' list='default'
action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): found list default
Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START
(1598999635): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193
id=1598999635 Jan 30 12:17:10: TAC+: ver=192 id=1598999635 received AUTHEN status = ERROR Jan 30
12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user
(0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:10: TAC+: ver=192 id=3400389836 received AUTHEN status = PASS Jan 30 12:17:10:
AAA/AUTHEN: free_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = PASS Jan 30 12:17:10:
AAA/AUTHEN: free_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 *!--- Change the CHAP passwords. The password rtp_tunnel !--- in the LAC
TACACS+ users' file does not match the !--- password for "local name ABCDE" from the router !---
in the LNS TACACS+ users' file: Jan 30 13:24:23: Tnl 88 L2TP: Tunnel Authentication fails for
ABCDE Jan 30 13:24:23: Tnl 88 L2TP: Expected 7C959CA96C1E4AAA68BB3D481249488B Jan 30 13:24:23:
Tnl 88 L2TP: Got E4118FB4C8C4467EA4BF8872276C20B2* Jan 30 12:17:10: Tnl 74 L2TP: Got a response
from remote peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10:
AAA/AUTHEN: create_user (0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): port=''
list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): found
list default Jan 30 12:17:10: AAA/AUTHEN (2964849625): status = UNKNOWN Jan 30 12:17:10:
AAA/AUTHEN/START (2964849625): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet
ver=193 id=2964849625 20:03:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed
state to up Jan 30 12:17:11: TAC+: ver=192 id=2964849625 received AUTHEN status = ERROR Jan 30
12:17:11: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user
(0x22FC8C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30
12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11:
TAC+: ver=192 id=1474818051 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user
(0x22FC8C) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: AAA/AUTHEN (2964849625): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user
(0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: Tnl 74 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 74 L2TP: Tunnel
state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 74 L2TP: O SCCCN to ABCDE
tnlid 56 Jan 30 12:17:11: Tnl 74 L2TP: SM State established Jan 30 12:17:11: As1 74/1 L2TP: O
ICRQ to ABCDE 56/0 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-for-tunnel to
wait-reply Jan 30 12:17:11: Tnl 74 L2TP: Dropping old CM, Ns 0, expected 1 Jan 30 12:17:11: As1

74/1 L2TP: O ICCN to ABCDE 56/1 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-reply to established LAC#

O que pode dar errado – Depuração inadequada a partir do LNS

Este resultado do debug inclui os comentários em onde a sequência para quando o roteador é desconfigurado.

```
LNS#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LNS# Jan 30 12:17:09: L2TP: I SCCRQ from rtp_tunnel tnl 74 Jan 30
12:17:09: Tnl 56 L2TP: New tunnel created for remote rtp_tunnel, address 10.31.1.144 !---
Instead of the LAC sending the "rtp_tunnel" !--- (see the user profile on the TACACS+ server),
it sends "junk". !--- We are expecting "rtp_tunnel" as in "accept dialin l2tp !--- virtual-
template 1 remote rtp_tunnel" in this configuration: Jan 30 13:05:16: L2TP: I SCCRQ from junk
tnl 81 Jan 30 13:05:16: L2X: Never heard of junk Jan 30 13:05:16: L2TP: Could not find info
block for junk Jan 30 12:17:09: Tnl 56 L2TP: Got a challenge in SCCRQ, rtp_tunnel Jan 30
12:17:09: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user
(0x21F6D0) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30
12:17:09: AAA/AUTHEN/START (3194595626): port='' list='default' action=SENDAUTH service=PPP Jan
30 12:17:09: AAA/AUTHEN/START (3194595626): found list default Jan 30 12:17:09: AAA/AUTHEN
(3194595626): status = UNKNOWN Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): Method=TACACS+
Jan 30 12:17:09: TAC+: send AUTHEN/START packet ver=193 id=3194595626 Jan 30 12:17:09: TAC+:
ver=192 id=3194595626 received AUTHEN status = ERROR Jan 30 12:17:09: AAA: parse name= idb
type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x2281AC) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: TAC+: ver=192 id=3639011179
received AUTHEN status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x2281AC) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN
(3194595626): status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x21F6D0) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: Tnl 56 L2TP: O
SCCRP to rtp_tunnel tnlid 74 Jan 30 12:17:09: Tnl 56 L2TP: Tunnel state change from idle to
wait-ctl-reply Jan 30 12:17:10: Tnl 56 L2TP: O Resend SCCRP, flg TLF, ver 2, len 152, tnl 74, cl
0, ns 0, nr 1 Jan 30 12:17:10: Tnl 56 L2TP: I SCCCN from rtp_tunnel tnl 74 Jan 30 12:17:10: Tnl
56 L2TP: Got a Challenge Response in SCCCN from rtp_tunnel Jan 30 12:17:10: AAA: parse name= idb
type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x227F3C) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/STARTTranslating
"rtp.cisco.com" (4117701992): port='' list='default' action=SENDAUTH service=PPP Jan 30
12:17:10: AAA/AUTHEN/START (4117701992): found list default Jan 30 12:17:10: AAA/AUTHEN
(4117701992): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): Method=TACACS+
Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=4117701992 Jan 30 12:17:11: TAC+:
ver=192 id=4117701992 received AUTHEN status = ERROR Jan 30 12:17:11: AAA: parse name= idb
type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x228E68) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: TAC+: ver=192 id=2827432721
received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x228E68) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: AAA/AUTHEN
(4117701992): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x227F3C) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: Tnl 56 L2TP:
Tunnel Authentication success Jan 30 12:17:11: Tnl 56 L2TP: Tunnel state change from wait-ctl-
reply to established Jan 30 12:17:11: Tnl 56 L2TP: SM State established Jan 30 12:17:11: Tnl 56
L2TP: I ICRQ from rtp_tunnel tnl 74 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session FS enabled Jan 30
12:17:11: Tnl/Cl 56/1 L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: New session created Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: O ICRP to rtp_tunnel
74/1 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session state change from wait-for-tunnel to wait-
connect Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: I ICCN from rtp_tunnel tnl 74, cl 1 Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: Session state change from wait-connect to established Jan 30 12:17:11: Vi1
VTEMPLATE: Reuse Vi1, recycle queue size 0 Jan 30 12:17:11: Vi1 VTEMPLATE: Hardware address
00e0.1e68.942c Jan 30 12:17:11: Vi1 VPDN: Virtual interface created for janedoe@rtp.cisco.com
Jan 30 12:17:11: Vi1 VPDN: Set to Async interface Jan 30 12:17:11: Vi1 VPDN: Clone from
Vtemplate 1 filterPPP=0 blocking Jan 30 12:17:11: Vi1 VTEMPLATE: Has a new cloneblk vtemplate,
now it has vtemplate Jan 30 12:17:11: Vi1 VTEMPLATE: ***** CLONE VACCESS1
***** Jan 30 12:17:11: Vi1 VTEMPLATE: Clone from Virtual-Templatel1 interface
Virtual-Access1 default ip address no ip address encaps ppp ip unnumbered Ethernet0 peer default
```

```
ip address pool default ppp authentication chap ip unnum ethernet0 peer def ip address pool
default ppp authen chap end Jan 30 12:17:12: janedoe@rtp.cisco.com 56/1 L2TP: Session with no
hwidb 20:12:14: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up Jan 30 12:17:13:
Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially Jan 30 12:17:13: Vi1 VPDN: Bind interface
direction=2 Jan 30 12:17:13: Vi1 VPDN: PPP LCP accepted rcv CONFACK Jan 30 12:17:13: Vi1 VPDN:
PPP LCP accepted sent CONFACK Jan 30 12:17:13: Vi1 L2X: Discarding packet because of no
mid/session Jan 30 12:17:13: AAA: parse name=Virtual-Access1 idb type=21 tty=-1 Jan 30 12:17:13:
AAA: name=Virtual-Access1 flags=0x11 type=5 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30
12:17:13: AAA/AUTHEN: create_user (0x1F5100) user='janedoe@rtp.cisco.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:13:
AAA/AUTHEN/START (562517969): port='Virtual-Access1' list='' action=LOGIN service=PPP Jan 30
12:17:13: AAA/AUTHEN/START (562517969): using "default" list Jan 30 12:17:13: AAA/AUTHEN
(562517969): status = UNKNOWN Jan 30 12:17:13: AAA/AUTHEN/START (562517969): Method=TACACS+ Jan
30 12:17:13: TAC+: send AUTHEN/START packet ver=193 id=562517969 Jan 30 12:17:14: TAC+: ver=192
id=562517969 received AUTHEN status = GETPASS Jan 30 12:17:14: AAA: parse name=Virtual-Access1
idb type=-1 tty=-1 Jan 30 12:17:14: AAA: name=Virtual-Access1 flags=0x11 type=6 shelf=0 slot=0
adapter=0 port=1 channel=0 Jan 30 12:17:14: AAA/AUTHEN: create_user (0x1F5270)
user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:14: TAC+: ver=192 id=2384902384 received AUTHEN status = PASS
Jan 30 12:17:14: AAA/AUTHEN: free_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser=''
port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 !--- Here, the tunnel is
ok, but the user !--- enters a bad password in dialing: Jan 30 13:39:44: AAA/AUTHEN
(1958732267): status = FAIL 21:34:45: %VPDN-6-AUTHENFAIL: L2F HGW 10.31.1.144, AAA
authentication failure for Vi1 user janedoe@rtp.cisco.com; Authentication failure Jan 30
12:17:14: AAA/AUTHEN (562517969): status = PASS Jan 30 12:17:14: Vi1 AAA/AUTHOR/LCP: Authorize
LCP Jan 30 12:17:14: AAA/AUTHOR/LCP Vi1 (413543389): Port='Virtual-Access1' list='' service=NET
Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) user='janedoe@rtp.cisco.com' Jan 30 12:17:14:
AAA/AUTHOR/LCP: Vi1 (413543389) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1
(413543389) send AV protocol=lcp Jan 30 12:17:14: AAA/AUTHOR/LCP (413543389) found list
"default" Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) Method=TACACS+ Jan 30 12:17:14:
AAA/AUTHOR/TAC+: (413543389): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+:
(413543389): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV
protocol=lcp Jan 30 12:17:14: TAC+: (413543389): received author response status = PASS_ADD Jan
30 12:17:14: AAA/AUTHOR (413543389): Post authorization status = PASS_ADD Jan 30 12:17:14:
AAA/ACCT/NET/START User janedoe@rtp.cisco.com, Port Virtual-Access1, List "" Jan 30 12:17:14:
AAA/ACCT/NET: Found list "default" Jan 30 12:17:14: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP?
Jan 30 12:17:14: AAA/AUTHOR/FSM Vi1 (1358526470): Port='Virtual-Access1' list='' service=NET Jan
30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) user='janedoe@rtp.cisco.com' Jan 30 12:17:14:
AAA/AUTHOR/FSM: Vi1 (1358526470) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1
(1358526470) send AV protocol=ip Jan 30 12:17:14: AAA/AUTHOR/FSM (1358526470) found list
"default" Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) Method=TACACS+ Jan 30 12:17:14:
AAA/AUTHOR/TAC+: (1358526470): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+:
(1358526470): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV
protocol=ip Jan 30 12:17:14: TAC+: (1358526470): received author response status = PASS_ADD Jan
30 12:17:14: AAA/AUTHOR (1358526470): Post authorization status = PASS_ADD Jan 30 12:17:14: Vi1
AAA/AUTHOR/FSM: We can start IPCP Jan 30 12:17:14: TAC+: (1442592025): received acct response
status = UNKNOWN 20:12:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1,
changed state to up Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want
0.0.0.0 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1
AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 Jan
30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16:
Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing
AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16:
Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vi1
AAA/AUTHOR/IPCP: Start. Her address 10.6.1.1, we want 10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP
Vi1 (3572380713): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:16: AAA/AUTHOR/IPCP:
Vi1 (3572380713) user='janedoe@rtp.cisco.com' Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713)
send AV service=ppp Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV protocol=ip Jan
30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV addr*10.6.1.1 Jan 30 12:17:16:
AAA/AUTHOR/IPCP (3572380713) found list "default" Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1
(3572380713) Method=TACACS+ Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713):
user=janedoe@rtp.cisco.com Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV service=ppp
Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV protocol=ip Jan 30 12:17:16:
```

```
AAA/AUTHOR/TAC+: (3572380713): send AV addr*10.6.1.1 Jan 30 12:17:17: TAC+: (3572380713):
received author response status = PASS_ADD Jan 30 12:17:17: AAA/AUTHOR (3572380713): Post
authorization status = PASS_ADD Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:17: Vi1
AAA/AUTHOR/IPCP: Processing AV addr*10.6.1.1 Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.6.1.1, we want 10.6.1.1
LNS#
```

Registros de relatório de LNS

Isto está no server LNS TACACS+.

```
Sat Jan 30 05:27:01 1999 10.31.1.56 janedoe@rtp.cisco.com
Virtual-Access1 unknown
start task_id=4 start_time=917700054 timezone=UTC service=ppp
```

```
Sat Jan 30 05:27:27 1999 10.31.1.56 janedoe@rtp.cisco.com
Virtual-Access1 unknown
stop task_id=4 start_time=917700054 timezone=UTC service=ppp
protocol=ip addr=10.6.1.1 disc-cause=2 disc-cause-ext=1011
pre-bytes-in=0 pre-bytes-out=8
pre-paks-in=0 pre-paks-out=2 bytes_in=862 bytes_out=142
paks_in=19 paks_out=8 pre-session-time=1
```

Troubleshooting

Esta seção fornece informações que podem ser usadas para o troubleshooting da sua configuração.

Comandos para Troubleshooting

Nota: Antes de emitir comandos **debug**, consulte [Informações importantes sobre comandos debug](#).

- **debug aaa authentication** — Exibe informações sobre autenticação AAA/TACACS+.
- **debug aaa authorization** — Exibe informações sobre autorização AAA/TACACS+.
- **debug aaa accounting** — Exibe informações sobre eventos explicáveis à medida que ocorrem. As informações exibidas por esse comando são independentes do protocolo de relatório usado para transferência das informações de relatório para um servidor.
- **debugger tacacs+** — Indica o informação detalhada sobre debug associado com o TACACS+.
- **debug vtemplate** — Exibe informações sobre clonagem de uma interface de acesso virtual do momento do clone a partir de um modelo virtual até o momento em que a interface de acesso virtual é desativada quando a chamada termina.
- **debug vpdn error** — Exibe erros que evitam que um túnel de PPP seja estabelecido ou erros que fazem com que um túnel estabelecido seja fechado.
- **debug vpdn events** — Exibe mensagens sobre eventos que fazem parte do estabelecimento ou encerramento normal de túneis PPP.
- **debug vpdn l2x-errors** — Indica os erros de protocolo da camada 2 que impedem o estabelecimento da camada 2 ou impedem sua operação normal.
- **debug vpdn l2x-events** — Indica mensagens sobre os eventos que são parte de estabelecimento de túnel normal ou parada programada PPP para a camada 2.

Saída de depurações

[Boa depuração a partir do roteador LAC](#)

```
LAC#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LAC# Jan 30 12:17:09: As1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially
20:03:18: %LINK-3-UPDOWN: Interface Async1, changed state to up Jan 30 12:17:09: As1 VPDN:
Looking for tunnel -- rtp.cisco.com -- Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1
Jan 30 12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0
Jan 30 12:17:09: AAA/AUTHEN: create_user (0x278B90) user='rtp.cisco.com' ruser='' port='Async1'
rem_addr='' authen_type=NONE service=LOGIN priv=0 Jan 30 12:17:09: AAA/AUTHOR/VPDN (898425447):
Port='Async1' list='default' service=NET Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447)
user='rtp.cisco.com' Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV service=ppp Jan 30
12:17:09: AAA/AUTHOR/VPDN: (898425447) send AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN
(898425447) found list "default" Jan 30 12:17:09: AAA/AUTHOR/VPDN: (898425447) Method=TACACS+
Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447): user=rtp.cisco.com Jan 30 12:17:09:
AAA/AUTHOR/TAC+: (898425447): send AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/TAC+: (898425447):
send AV protocol=vpdn Jan 30 12:17:09: TAC+: (898425447): received author response status =
PASS_ADD Jan 30 12:17:09: AAA/AUTHOR (898425447): Post authorization status = PASS_ADD Jan 30
12:17:09: AAA/AUTHOR/VPDN: Processing AV service=ppp Jan 30 12:17:09: AAA/AUTHOR/VPDN:
Processing AV protocol=vpdn Jan 30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-type=l2tp Jan
30 12:17:09: AAA/AUTHOR/VPDN: Processing AV tunnel-id=rtp_tunnel Jan 30 12:17:09:
AAA/AUTHOR/VPDN: Processing AV ip-addresses=10.31.1.56 Jan 30 12:17:09: As1 VPDN: Get tunnel
info for rtp.cisco.com with LAC rtp_tunnel, IP 10.31.1.56 Jan 30 12:17:09: AAA/AUTHEN: free_user
(0x278B90) user='rtp.cisco.com' ruser='' port='Async1' rem_addr='' authen_type=NONE
service=LOGIN priv=0 Jan 30 12:17:09: As1 VPDN: Forward to address 10.31.1.56 Jan 30 12:17:09:
As1 VPDN: Forwarding... Jan 30 12:17:09: AAA: parse name=Async1 idb type=10 tty=1 Jan 30
12:17:09: AAA: name=Async1 flags=0x11 type=4 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30
12:17:09: AAA/AUTHEN: create_user (0x22CDEC) user='janedoe@rtp.cisco.com' ruser='' port='Async1'
rem_addr='async' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: As1 VPDN: Bind interface
direction=1 Jan 30 12:17:09: Tnl/C1 74/1 L2TP: Session FS enabled Jan 30 12:17:09: Tnl/C1 74/1
L2TP: Session state change from idle to wait-for-tunnel Jan 30 12:17:09: As1 74/1 L2TP: Create
session Jan 30 12:17:09: Tnl 74 L2TP: SM State idle Jan 30 12:17:09: Tnl 74 L2TP: O SCCRQ Jan 30
12:17:09: Tnl 74 L2TP: Tunnel state change from idle to wait-ctl-reply Jan 30 12:17:09: Tnl 74
L2TP: SM State wait-ctl-reply Jan 30 12:17:09: As1 VPDN: janedoe@rtp.cisco.com is forwarded Jan
30 12:17:10: Tnl 74 L2TP: I SCCRP from ABCDE Jan 30 12:17:10: Tnl 74 L2TP: Got a challenge from
remote peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10:
AAA/AUTHEN: create_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): port=''
list='default' action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (1598999635): found
list default Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = UNKNOWN Jan 30 12:17:10:
AAA/AUTHEN/START (1598999635): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet
ver=193 id=1598999635 Jan 30 12:17:10: TAC+: ver=192 id=1598999635 received AUTHEN status =
ERROR Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN:
create_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: TAC+: ver=192 id=3400389836 received AUTHEN status = PASS
Jan 30 12:17:10: AAA/AUTHEN: free_user (0x232470) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN (1598999635): status = PASS Jan
30 12:17:10: AAA/AUTHEN: free_user (0x23232C) user='rtp_tunnel' ruser='' port='' rem_addr=''
authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: Tnl 74 L2TP: Got a response from remote
peer, ABCDE Jan 30 12:17:10: AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN:
create_user (0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP
service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): port='' list='default'
action=SENDAUTH service=PPP Jan 30 12:17:10: AAA/AUTHEN/START (2964849625): found list default
Jan 30 12:17:10: AAA/AUTHEN (2964849625): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START
(2964849625): Method=TACACS+ Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193
id=2964849625 20:03:20: %LINEPROTO-5-UPDOWN: Line protocol on Interface Async1, changed state to
up Jan 30 12:17:11: TAC+: ver=192 id=2964849625 received AUTHEN status = ERROR Jan 30 12:17:11:
AAA: parse name= idb type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x22FC8C)
user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30
12:17:11: As1 74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: As1
74/1 L2TP: Discarding data packet because tunnel is not open Jan 30 12:17:11: TAC+: ver=192
id=1474818051 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user (0x22FC8C)
```

```
user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30
12:17:11: AAA/AUTHEN (2964849625): status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user
(0x22FBA4) user='rtp_tunnel' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: Tnl 74 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 74 L2TP: Tunnel
state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 74 L2TP: O SCCCN to ABCDE
tnlid 56 Jan 30 12:17:11: Tnl 74 L2TP: SM State established Jan 30 12:17:11: As1 74/1 L2TP: O
ICRQ to ABCDE 56/0 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-for-tunnel to
wait-reply Jan 30 12:17:11: Tnl 74 L2TP: Dropping old CM, Ns 0, expected 1 Jan 30 12:17:11: As1
74/1 L2TP: O ICCN to ABCDE 56/1 Jan 30 12:17:11: As1 74/1 L2TP: Session state change from wait-
reply to established LAC#
```

[Boa depuração a partir do roteador LNS](#)

```
LNS#show debug General OS: AAA Authentication debugging is on AAA Authorization debugging is on
AAA Accounting debugging is on VPN: L2X protocol events debugging is on L2X protocol errors
debugging is on VPDN events debugging is on VPDN errors debugging is on VTEMPLATE: Virtual
Template debugging is on LNS# Jan 30 12:17:09: L2TP: I SCCRQ from rtp_tunnel tnl 74 Jan 30
12:17:09: Tnl 56 L2TP: New tunnel created for remote rtp_tunnel, address 10.31.1.144 Jan 30
12:17:09: Tnl 56 L2TP: Got a challenge in SCCRQ, rtp_tunnel Jan 30 12:17:09: AAA: parse name=
idb type=-1 tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x21F6D0) user='ABCDE' ruser=''
port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN/START
(3194595626): port='' list='default' action=SENDAUTH service=PPP Jan 30 12:17:09:
AAA/AUTHEN/START (3194595626): found list default Jan 30 12:17:09: AAA/AUTHEN (3194595626):
status = UNKNOWN Jan 30 12:17:09: AAA/AUTHEN/START (3194595626): Method=TACACS+ Jan 30 12:17:09:
TAC+: send AUTHEN/START packet ver=193 id=3194595626 Jan 30 12:17:09: TAC+: ver=192
id=3194595626 received AUTHEN status = ERROR Jan 30 12:17:09: AAA: parse name= idb type=-1
tty=-1 Jan 30 12:17:09: AAA/AUTHEN: create_user (0x2281AC) user='ABCDE' ruser='' port=''
rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: TAC+: ver=192 id=3639011179
received AUTHEN status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x2281AC) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: AAA/AUTHEN
(3194595626): status = PASS Jan 30 12:17:09: AAA/AUTHEN: free_user (0x21F6D0) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:09: Tnl 56 L2TP: O
SCCRP to rtp_tunnel tnlid 74 Jan 30 12:17:09: Tnl 56 L2TP: Tunnel state change from idle to
wait-ctl-reply Jan 30 12:17:10: Tnl 56 L2TP: O Resend SCCRP, flg TLF, ver 2, len 152, tnl 74,
cl 0, ns 0, nr 1 Jan 30 12:17:10: Tnl 56 L2TP: I SCCCN from rtp_tunnel tnl 74 Jan 30 12:17:10:
Tnl 56 L2TP: Got a Challenge Response in SCCCN from rtp_tunnel Jan 30 12:17:10: AAA: parse
name= idb type=-1 tty=-1 Jan 30 12:17:10: AAA/AUTHEN: create_user (0x227F3C) user='ABCDE'
ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:10: AAA/AUTHEN/START
Translating "rtp.cisco.com" (4117701992): port='' list='default' action=SENDAUTH service=PPP
Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): found list default Jan 30 12:17:10: AAA/AUTHEN
(4117701992): status = UNKNOWN Jan 30 12:17:10: AAA/AUTHEN/START (4117701992): Method=TACACS+
Jan 30 12:17:10: TAC+: send AUTHEN/START packet ver=193 id=4117701992 Jan 30 12:17:11: TAC+:
ver=192 id=4117701992 received AUTHEN status = ERROR Jan 30 12:17:11: AAA: parse name= idb
type=-1 tty=-1 Jan 30 12:17:11: AAA/AUTHEN: create_user (0x228E68) user='ABCDE' ruser=''
port='' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:11: TAC+: ver=192
id=2827432721 received AUTHEN status = PASS Jan 30 12:17:11: AAA/AUTHEN: free_user
(0x228E68) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP priv=1
Jan 30 12:17:11: AAA/AUTHEN (4117701992): status = PASS Jan 30 12:17:11: AAA/AUTHEN:
free_user (0x227F3C) user='ABCDE' ruser='' port='' rem_addr='' authen_type=CHAP service=PPP
priv=1 Jan 30 12:17:11: Tnl 56 L2TP: Tunnel Authentication success Jan 30 12:17:11: Tnl 56
L2TP: Tunnel state change from wait-ctl-reply to established Jan 30 12:17:11: Tnl 56 L2TP:
SM State established Jan 30 12:17:11: Tnl 56 L2TP: I ICRQ from rtp_tunnel tnl 74 Jan 30
12:17:11: Tnl/Cl 56/1 L2TP: Session FS enabled Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: Session
state change from idle to wait-for-tunnel Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: New session
created Jan 30 12:17:11: Tnl/Cl 56/1 L2TP: O ICRP to rtp_tunnel 74/1 Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: Session state change from wait-for-tunnel to wait-connect Jan 30 12:17:11:
Tnl/Cl 56/1 L2TP: I ICCN from rtp_tunnel tnl 74, cl 1 Jan 30 12:17:11: Tnl/Cl 56/1 L2TP:
Session state change from wait-connect to established Jan 30 12:17:11: Vi1
VTEMPLATE: Reuse Vi1, recycle queue size 0 Jan 30 12:17:11: Vi1 VTEMPLATE: Hardware address
00e0.1e68.942c Jan 30 12:17:11: Vi1 VPDN: Virtual interface created for janedoe@rtp.cisco.com
Jan 30 12:17:11: Vi1 VPDN: Set to Async interface Jan 30 12:17:11: Vi1 VPDN: Clone from
Vtemplate 1 filterPPP=0 blocking Jan 30 12:17:11: Vi1 VTEMPLATE: Has a new cloneblk vtemplate,
now it has vtemplate Jan 30 12:17:11: Vi1 VTEMPLATE: ***** CLONE VACCESS1
***** Jan 30 12:17:11: Vi1 VTEMPLATE: Clone from Virtual-Templatel interface
```

Virtual-Access1 default ip address no ip address encap ppp ip unnumbered Ethernet0 peer default ip address pool default ppp authentication chap ip unnum ethernet0 peer def ip address pool default ppp authen chap end Jan 30 12:17:12: janedoe@rtp.cisco.com 56/1 L2TP: Session with no hwidb 20:12:14: %LINK-3-UPDOWN: Interface Virtual-Access1, changed state to up Jan 30 12:17:13: Vi1 AAA/AUTHOR/FSM: (0): LCP succeeds trivially Jan 30 12:17:13: Vi1 VPDN: Bind interface direction=2 Jan 30 12:17:13: Vi1 VPDN: PPP LCP accepted rcv CONFACK Jan 30 12:17:13: Vi1 VPDN: PPP LCP accepted sent CONFACK Jan 30 12:17:13: Vi1 L2X: Discarding packet because of no mid/session Jan 30 12:17:13: AAA: parse name=Virtual-Access1 idb type=21 tty=-1 Jan 30 12:17:13: AAA: name=Virtual-Access1 flags=0x11 type=5 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:13: AAA/AUTHEN: create_user (0x1F5100) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:13: AAA/AUTHEN/START (562517969): port='Virtual-Access1' list='' action=LOGIN service=PPP Jan 30 12:17:13: AAA/AUTHEN/START (562517969): using "default" list Jan 30 12:17:13: AAA/AUTHEN (562517969): status = UNKNOWN Jan 30 12:17:13: AAA/AUTHEN/START (562517969): Method=TACACS+ Jan 30 12:17:13: TAC+: send AUTHEN/START packet ver=193 id=562517969 Jan 30 12:17:14: TAC+: ver=192 id=562517969 received AUTHEN status = GETPASS Jan 30 12:17:14: AAA: parse name=Virtual-Access1 idb type=-1 tty=-1 Jan 30 12:17:14: AAA: name=Virtual-Access1 flags=0x11 type=6 shelf=0 slot=0 adapter=0 port=1 channel=0 Jan 30 12:17:14: AAA/AUTHEN: create_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:14: TAC+: ver=192 id=2384902384 received AUTHEN status = PASS Jan 30 12:17:14: AAA/AUTHEN: free_user (0x1F5270) user='janedoe@rtp.cisco.com' ruser='' port='Virtual-Access1' rem_addr='' authen_type=CHAP service=PPP priv=1 Jan 30 12:17:14: AAA/AUTHEN (562517969): status = PASS Jan 30 12:17:14: Vi1 AAA/AUTHOR/LCP: Authorize LCP Jan 30 12:17:14: AAA/AUTHOR/LCP Vi1 (413543389): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) user='janedoe@rtp.cisco.com' Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) send AV protocol=lcp Jan 30 12:17:14: AAA/AUTHOR/LCP (413543389) found list "default" Jan 30 12:17:14: AAA/AUTHOR/LCP: Vi1 (413543389) Method=TACACS+ Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (413543389): send AV protocol=lcp Jan 30 12:17:14: TAC+: (413543389): received author response status = PASS_ADD Jan 30 12:17:14: AAA/AUTHOR (413543389): Post authorization status = PASS_ADD Jan 30 12:17:14: AAA/ACCT/NET/START User janedoe@rtp.cisco.com, Port Virtual-Access1, List "" Jan 30 12:17:14: AAA/ACCT/NET: Found list "default" Jan 30 12:17:14: Vi1 AAA/AUTHOR/FSM: (0): Can we start IPCP? Jan 30 12:17:14: AAA/AUTHOR/FSM Vi1 (1358526470): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) user='janedoe@rtp.cisco.com' Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) send AV protocol=ip Jan 30 12:17:14: AAA/AUTHOR/FSM (1358526470) found list "default" Jan 30 12:17:14: AAA/AUTHOR/FSM: Vi1 (1358526470) Method=TACACS+ Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): user=janedoe@rtp.cisco.com Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV service=ppp Jan 30 12:17:14: AAA/AUTHOR/TAC+: (1358526470): send AV protocol=ip Jan 30 12:17:14: TAC+: (1358526470): received author response status = PASS_ADD Jan 30 12:17:14: AAA/AUTHOR (1358526470): Post authorization status = PASS_ADD Jan 30 12:17:14: Vi1 AAA/AUTHOR/FSM: We can start IPCP Jan 30 12:17:14: TAC+: (1442592025): received acct response status = UNKNOWN 20:12:16: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to up Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 0.0.0.0 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 0.0.0.0 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Authorization succeeded Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Done. Her address 0.0.0.0, we want 10.6.1.1 Jan 30 12:17:16: Vi1 AAA/AUTHOR/IPCP: Start. Her address 10.6.1.1, we want 10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP Vi1 (3572380713): Port='Virtual-Access1' list='' service=NET Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) user='janedoe@rtp.cisco.com' Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV service=ppp Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV protocol=ip Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) send AV addr*10.6.1.1 Jan 30 12:17:16: AAA/AUTHOR/IPCP (3572380713) found list "default" Jan 30 12:17:16: AAA/AUTHOR/IPCP: Vi1 (3572380713) Method=TACACS+ Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): user=janedoe@rtp.cisco.com Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV service=ppp Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV protocol=ip Jan 30 12:17:16: AAA/AUTHOR/TAC+: (3572380713): send AV addr*10.6.1.1 Jan 30 12:17:17: TAC+: (3572380713): received author response status = PASS_ADD Jan 30 12:17:17: AAA/AUTHOR (3572380713): Post

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authorization status = PASS_ADD Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV service=ppp
Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Processing AV protocol=ip Jan 30 12:17:17: Vi1
AAA/AUTHOR/IPCP: Processing AV addr*10.6.1.1 Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Authorization
succeeded Jan 30 12:17:17: Vi1 AAA/AUTHOR/IPCP: Done. Her address 10.6.1.1, we want 10.6.1.1
LNS#
```

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