

Come selezionare l'elenco AAA in base al nome di dominio in Intelligent Services Gateway (ISG)

Sommario

[Introduzione](#)

[Prerequisiti](#)

[Requisiti](#)

[Componenti usati](#)

[Configurazione](#)

[Esempio di rete](#)

[Configurazioni](#)

[Verifica](#)

[Risoluzione dei problemi](#)

[Output di esempio del comando debug](#)

Introduzione

In questo documento viene spiegato come selezionare un gruppo di autenticazione, autorizzazione e accounting (AAA) e tutte le funzionalità a esso associate (ip di origine, server RADIUS e così via) effettuando una selezione sul dominio recuperato del sottoscrittore PPP (Point-to-Point Protocol) in arrivo.

Prerequisiti

Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

- Reti remote private virtuali (VPDN)
- ISG (Intelligent Service Gateway)

Suggerimento: : Per ulteriori informazioni su ISG, consultare la [Guida alla configurazione di Intelligent Services Gateway](#).

Suggerimento: Per ulteriori informazioni sulle funzionalità VPDN di base, consultare la [guida alla configurazione](#) della VPDN.

Componenti usati

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware:

- ASR1K con IOS-XE release 03.17.01.S.

- Server a raggio libero.

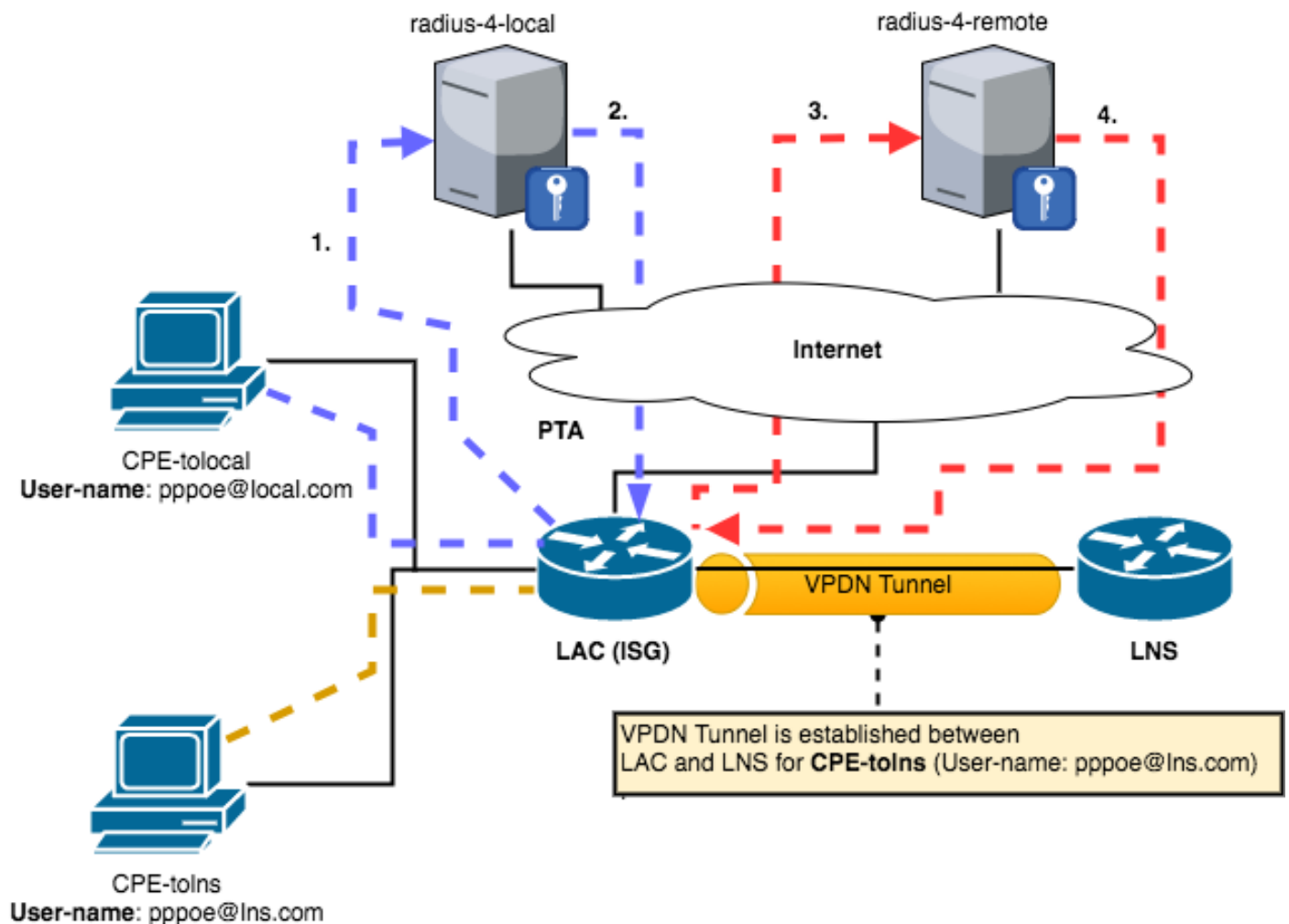
Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

Configurazione

Utilizzare le informazioni descritte in questa sezione per configurare le funzionalità descritte più avanti nel documento.

Nota: Questa opzione è valida solo per i sottoscrittori PPP.

Esempio di rete



Configurazioni

Nota: Questa configurazione simula due client PPPoE (PPP over Ethernet) creando due sottointerfacce con tag dot1q diversi sul router CPE (Customer Premise Equipment) e crea due interfacce dialer con nome utente PPP diverso. In questo modo si potrebbero simulare

due client diversi nella topologia.

Questa è la configurazione utilizzata sul router CPE.

```
interface Ethernet0/1.101
  description ppp using isg
  encapsulation dot1Q 101
  pppoe enable group global
  pppoe-client dial-pool-number 2
!
interface Ethernet0/1.102
  description ppp using isg
  encapsulation dot1Q 102
  pppoe enable
  pppoe-client dial-pool-number 3
!
!--- Following dialer will be used for first CPE with user name pppoe@local.com.
! interface Dialer2
  ip address negotiated
  encapsulation ppp
  shutdown
  dialer pool 2
  ppp pap sent-username pppoe@local.com password 0 cisco ! !--- Following dialer will be used for
second CPE with user name pppoe@lns.com.
! interface Dialer3
  ip address negotiated
  encapsulation ppp
  shutdown
  dialer pool 3
  ppp pap sent-username pppoe@lns.com password 0 cisco
```

Questa è la configurazione usata sui dispositivi LAC (ISG).

```
!
hostname lac
!
aaa new-model
!
!
aaa group server radius AAA-4-LOCAL      ! => Group that will treat the user with domain local.com
  server name RAD-4-LOCAL
  ip radius source-interface Ethernet0/0
!
aaa group server radius AAA-4-FORWARD   ! => Group that will treat the user with domain lns.com
  server name RAD-4-FORWARD
  ip radius source-interface Loopback1
!
aaa authentication login default local
aaa authentication ppp default group radius
aaa authentication ppp AAA-4-LOCAL group AAA-4-LOCAL      ! => List will call the right group
aaa authentication ppp AAA-4-FORWARD group AAA-4-FORWARD ! => List will call the right group
aaa authorization exec default local
aaa authorization network default group radius
!
aaa session-id common
!
vpdn enable
!
```

```

class-map type control match-all PPP-4-FORWARD  !=> class to match the domain to forward to lns
  match unauthenticated-domain lns.com
  match protocol ppp
!
class-map type control match-all PPP-4-LOCAL    !=> class to match the domain for local
termination
  match unauthenticated-domain local.com
  match protocol ppp
!
class-map type control match-all PPP           !=> class to match ppp packets.
  match protocol ppp
!
policy-map type control PPPOE                  !=> All pppoe will first hit this control
policy
  class type control PPP event session-start
    11 collect identifier unauthenticated-domain
    12 service-policy type control DOMAIN      !=> Now we forward to another policy that will
make the selection
  !
  !
policy-map type control DOMAIN
  class type control PPP-4-LOCAL event session-start  !=> If domain is local.com we use this
    20 authenticate aaa list AAA-4-LOCAL
  !
  class type control PPP-4-FORWARD event session-start !=> If domain is lns.com we use this
    20 authenticate aaa list AAA-4-FORWARD
  !
  !
bba-group pppoe ppp-isg
  virtual-template 2
!
!
!
interface Loopback0
  ip address 172.19.1.2 255.255.255.255
!
interface Loopback1
  ip address 172.17.21.6 255.255.255.255      !=> radius request for domain lns.com use this
!
interface Ethernet0/0
  ip address 172.16.21.6 255.255.255.252      !=> radius request for domain local.com use
this
!
interface Ethernet0/1
  no ip address
!
interface Ethernet0/1.101
  encapsulation dot1Q 101
  pppoe enable group ppp-isg
!
interface Ethernet0/1.102
  encapsulation dot1Q 102
  pppoe enable group ppp-isg
!
interface Virtual-Template2
  ip unnumbered Loopback0
  ppp authentication pap
  service-policy type control PPPOE
!
radius server RAD-4-LOCAL
  address ipv4 172.16.21.5 auth-port 32645 acct-port 32646
  key cisco
!

```

```
radius server RAD-4-FORWARD
  address ipv4 172.16.21.5 auth-port 11645 acct-port 11646
  key cisco
!
```

Questa è la configurazione utilizzata sul dispositivo LNS.

```
! hostname lns ! aaa new-model ! ! aaa authentication login default local aaa
authentication ppp default group radius aaa authorization exec default local aaa
authorization network default group radius ! vpdn enable ! vpdn-group default ! Default
L2TP VPDN group accept-dialin protocol l2tp virtual-template 1 l2tp tunnel password
0 cisco ! interface Virtual-Template1 ip unnumbered Loopback10 peer default ip address
pool allppp ppp mtu adaptive ppp authentication pap ! radius server IOL-alanssie2
  address ipv4 172.16.21.9 auth-port 32645 acct-port 32646 key cisco !
```

Verifica

In questa sezione vengono fornite informazioni che è possibile utilizzare per verificare che la configurazione funzioni correttamente e che una sessione PPPoE venga terminata sul LAC e l'altra sessione venga inoltrata al server LNS in base al nome di dominio.

```
lac#show subscriber ses
Codes: Lterm - Local Term, Fwd - forwarded, unauth - unauthenticated, authen -
authenticated, TC Ct. - Number of Traffic Classes on the main session
```

```
Current Subscriber Information: Total sessions 2
Uniq ID Interface      State      Service      Up-time  TC Ct. Identifier
39      Vi2.1          authen     Lterm        00:38:54 0      pppoe@local.com
40      PPPoE         authen     Fwd          00:38:01 0      pppoe@lns.com
```

In questo comando viene mostrato come il tunnel VPDN è stabilito tra LAC e LNS per il sottoscrittore **pppoe@lns.com**.

```
lac#sh vpdn tunnel
```

```
L2TP Tunnel Information Total tunnels 1 sessions 1
```

```
LocTunID  RemTunID  Remote Name  State  Remote Address  Sessn L2TP Class/
Count VPDN Group
7085      24548     lns          est    172.19.1.1      1      VPDN ip addr 17
lac#
```

Risoluzione dei problemi

Le informazioni contenute in questa sezione permettono di risolvere i problemi relativi alla configurazione.

Nota: Per la risoluzione dei problemi relativi alla sessione ISG, consultare l'articolo [Risoluzione dei problemi relativi a ISG con monitoraggio delle sessioni e debug condizionale distribuito](#) in Cisco.

Output di esempio del comando debug

Questo output di debug riflette il modo in cui l'utente locale basato sul nome di dominio **local.com**

viene autenticato e terminato sul dispositivo LAC.

```
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Authen status update; is now
"unauthen"
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: assert authen status
"unauthen"
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: send event Session Update
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Username key not found in set domain
key API
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Username key not found in set domain
key API
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Updated NAS port for AAA ID 50
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: send event Session Update
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client
block with handle D8000027
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Updated key list:
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Input Interface =
"Ethernet0/1.101"
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Access-Type = 3 (PPPoE)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Username key not found in set domain
key API
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Username key not found in set domain
key API
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client
block with handle D8000027
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Updated key list:
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Input Interface =
"Ethernet0/1.101"
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Access-Type = 3 (PPPoE)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Session-Handle = 1358954575
(5100004F)
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: SM Policy invoke - Service Selection
Request
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Access type PPPoE
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: Successfully added key
SUBTYPE_CONVERTED as FALSE
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Looking for a rule for event
session-start
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Intf CloneSrc Vt2: service-
rule any: PPPOE
*Jan 17 14:36:24.339: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Evaluate "PPPOE" for
session-start
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Match keys against "PPPOE":
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Input Interface =
"Ethernet0/1.101"
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Converted-Session = 0 (NO)
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Protocol-Type = 0 (PPP
Access Protocol)
```

*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Nasport = PPPoEoVLAN: slot
0 adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Session-Handle =
1358954575 (5100004F)
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match-all
PPP
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match
identifier protocol ppp [TRUE]
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match-all
PPP
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : PPP [TRUE]
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Matched "PPPOE/PPP event
session-start"
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Matched "PPPOE/PPP event
session-start/11 collect identifier unauthenticated-domain "
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Start
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: PPPOE/PPP event session-
start/11 collect identifier unauthenticated-domain
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: SIP [PPPoE] can provide more keys
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Need key Unauth-Domain
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: Start
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: PPPOE/PPP event session-
start/11 collect identifier unauthenticated-domain
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: Event <need keys>, State: initial-
req to need-init-keys
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Need More Keys
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: Need: Unauth-Domain
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: Asking client for more keys
*Jan 17 14:36:24.340: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Need More Keys
*Jan 17 14:36:24.340: PPP: Alloc Context [B174CE60]
*Jan 17 14:36:24.340: ppp39 PPP: Phase is ESTABLISHING
*Jan 17 14:36:24.341: SSS PM: ANCP not enabled on 'Ethernet0/1.101' - not retrieving default
shaper value
*Jan 17 14:36:24.341: ppp39 PPP: Using vpn set call direction
*Jan 17 14:36:24.341: ppp39 PPP: Treating connection as a callin
*Jan 17 14:36:24.341: ppp39 PPP: Session handle[99000027] Session id[39]
*Jan 17 14:36:24.341: ppp39 LCP: Event[OPEN] State[Initial to Starting]
*Jan 17 14:36:24.341: ppp39 PPP LCP: Enter passive mode, state[Stopped]
*Jan 17 14:36:24.342: ppp39 LCP: I CONFREQ [Stopped] id 1 len 10
*Jan 17 14:36:24.342: ppp39 LCP: MagicNumber 0xBCD9A1B6 (0x0506BCD9A1B6)
*Jan 17 14:36:24.343: ppp39 LCP: O CONFREQ [Stopped] id 1 len 18
*Jan 17 14:36:24.343: ppp39 LCP: MRU 1492 (0x010405D4)
*Jan 17 14:36:24.343: ppp39 LCP: AuthProto PAP (0x0304C023)
*Jan 17 14:36:24.343: ppp39 LCP: MagicNumber 0x010DA1F7 (0x0506010DA1F7)
*Jan 17 14:36:24.343: ppp39 LCP: O CONFACK [Stopped] id 1 len 10
*Jan 17 14:36:24.343: ppp39 LCP: MagicNumber 0xBCD9A1B6 (0x0506BCD9A1B6)
*Jan 17 14:36:24.343: ppp39 LCP: Event[Receive ConfReq+] State[Stopped to ACKsent]
*Jan 17 14:36:24.343: ppp39 LCP: I CONFNAK [ACKsent] id 1 len 8
*Jan 17 14:36:24.343: ppp39 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:36:24.343: ppp39 LCP: O CONFREQ [ACKsent] id 2 len 18
*Jan 17 14:36:24.343: ppp39 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:36:24.343: ppp39 LCP: AuthProto PAP (0x0304C023)
*Jan 17 14:36:24.343: ppp39 LCP: MagicNumber 0x010DA1F7 (0x0506010DA1F7)
*Jan 17 14:36:24.343: ppp39 LCP: Event[Receive ConfNak/Rej] State[ACKsent to ACKsent]
*Jan 17 14:36:24.343: ppp39 LCP: I CONFACK [ACKsent] id 2 len 18
*Jan 17 14:36:24.343: ppp39 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:36:24.343: ppp39 LCP: AuthProto PAP (0x0304C023)
*Jan 17 14:36:24.343: ppp39 LCP: MagicNumber 0x010DA1F7 (0x0506010DA1F7)
*Jan 17 14:36:24.343: ppp39 LCP: Event[Receive ConfAck] State[ACKsent to Open]
*Jan 17 14:36:24.366: ppp39 PPP: Queue PAP code[1] id[1]
*Jan 17 14:36:24.369: ppp39 PPP: Phase is AUTHENTICATING, by this end

*Jan 17 14:36:24.369: ppp39 PAP: Redirect packet to ppp39
*Jan 17 14:36:24.369: ppp39 PAP: I AUTH-REQ id 1 len 26 from "pppoe@local.com"
*Jan 17 14:36:24.370: ppp39 PAP: Authenticating peer pppoe@local.com
*Jan 17 14:36:24.370: ppp39 PPP: Phase is FORWARDING, Attempting Forward
*Jan 17 14:36:24.370: ppp39 LCP: State is Open
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Username key not found in set domain key API
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client block with handle D8000027
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Updated key list:
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Access-Type = 0 (PPP)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Input Interface = "Ethernet0/1.101"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Converted-Session = 0 (NO)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Authen-Status = 1 (Unauthenticated)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Nasport = PPPoEoVLAN: slot 0 adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Session-Handle = 1358954575 (5100004F)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Protocol-Type = 0 (PPP Access Protocol)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Unauth-User = "pppoe@local.com"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Unauth-Domain = "local.com"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: SM Policy invoke - Got More Keys
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: Access type PPP
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Start
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: PPPOE/PPP event session-start/11 collect identifier unauthenticated-domain
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: State: need-init-keys to initial-req
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Have key Unauth-Domain
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: Start
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: PPPOE/PPP event session-start/11 collect identifier unauthenticated-domain
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[2]: Start
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[2]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Match keys against "DOMAIN":
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Input Interface = "Ethernet0/1.101"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Converted-Session = 0 (NO)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Authen-Status = 1 (Unauthenticated)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Nasport = PPPoEoVLAN: slot 0 adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Session-Handle = 1358954575 (5100004F)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Protocol-Type = 0 (PPP Access Protocol)
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Unauth-User = "pppoe@local.com"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Unauth-Domain = "local.com"
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-LOCAL
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match identifier unauthenticated-domain local.com [TRUE]
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match identifier protocol ppp [TRUE]
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-LOCAL


```

*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: CONTROL-CLASS-MAP: : PPP-4-LOCAL
[TRUE]
*Jan 17 14:36:24.370: SSS PM [uid:39][B4728100][AAA ID:50]: RULE:      Matched "DOMAIN/PPP-4-LOCAL
event session-start"
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: Start
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: DOMAIN/PPP-4-LOCAL event
session-start/20 authenticate aaa list AAA-4-LOCAL
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: SIP [PPP] can provide more keys
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: Using AAA-Authen-Method-
List AAA-4-LOCAL
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: Need key Auth-User
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[4]: Start
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[4]: DOMAIN/PPP-4-LOCAL event
session-start/20 authenticate aaa list AAA-4-LOCAL
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: Event <need keys>, State: initial-
req to need-init-keys
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Need More Keys
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: Need:  Auth-User
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: ask for authen status
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR:  request, Query Session
Authenticated Status
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: reply, Query Session
Authenticated Status = no-record-found
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR:  session NOT authenticated
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: Event <idmgr didn't get keys>,
State: need-init-keys to need-init-keys
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: Asking client for more keys
*Jan 17 14:36:24.371: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Need More Keys
*Jan 17 14:36:24.371: ppp39 PPP: Phase is AUTHENTICATING, Unauthenticated User
*Jan 17 14:36:24.371: AAA/AUTHEN/PPP (00000032): Pick method list 'AAA-4-LOCAL'  <= Correct list
for local.com
*Jan 17 14:36:24.371: RADIUS/ENCODE(00000032):Orig. component type = PPPoE
*Jan 17 14:36:24.371: RADIUS: DSL line rate attributes successfully added
*Jan 17 14:36:24.371: RADIUS(00000032): Config NAS IP: 172.16.21.6
*Jan 17 14:36:24.371: RADIUS(00000032): Config NAS IPv6: ::
*Jan 17 14:36:24.371: RADIUS/ENCODE(00000032): acct_session_id: 40
*Jan 17 14:36:24.371: RADIUS(00000032): sending
*Jan 17 14:36:24.371: RADIUS(00000032): Send Access-Request to 172.16.21.5:32645 id 1645/50, len
137
*Jan 17 14:36:24.371: RADIUS:  authenticator E2 2A B0 15 24 CA 79 8C - A5 61 E4 1E C5 52 BC EF
*Jan 17 14:36:24.371: RADIUS:  Framed-Protocol      [7]  6  PPP                               [1]
*Jan 17 14:36:24.371: RADIUS:  User-Name           [1]  17  "pppoe@local.com"
*Jan 17 14:36:24.371: RADIUS:  User-Password       [2]  18  *
*Jan 17 14:36:24.371: RADIUS:  NAS-Port-Type       [61] 6  Virtual                               [5]
*Jan 17 14:36:24.371: RADIUS:  NAS-Port           [5]  6  0
*Jan 17 14:36:24.371: RADIUS:  NAS-Port-Id        [87] 11  "0/0/1/101"
*Jan 17 14:36:24.371: RADIUS:  Vendor, Cisco      [26] 41
*Jan 17 14:36:24.371: RADIUS:  Cisco AVpair       [1]  35  "client-mac-address=aabb.cc00.d210"
*Jan 17 14:36:24.371: RADIUS:  Service-Type       [6]  6  Framed                               [2]
*Jan 17 14:36:24.371: RADIUS:  NAS-IP-Address    [4]  6  172.16.21.6      <= Correct Nas for
Local.com
*Jan 17 14:36:24.371: RADIUS(00000032): Sending a IPv4 Radius Packet
*Jan 17 14:36:24.372: RADIUS(00000032): Started 5 sec timeout
*Jan 17 14:36:24.372: RADIUS: Received from id 1645/50 172.16.21.5:32645, Access-Accept, len 60
*Jan 17 14:36:24.372: RADIUS:  authenticator 1A EE FC 44 78 8A 56 DF - 41 57 45 27 4C A7 59 C6
*Jan 17 14:36:24.372: RADIUS:  Vendor, Cisco      [26] 34
*Jan 17 14:36:24.372: RADIUS:  Cisco AVpair       [1]  28  "ip:ip-unnumbered=loopback0"
*Jan 17 14:36:24.372: RADIUS:  Framed-IP-Address  [8]  6  179.1.1.1
*Jan 17 14:36:24.372: RADIUS(00000032): Received from id 1645/50
*Jan 17 14:36:24.373: ppp39 PPP: Phase is FORWARDING, Attempting Forward
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Authen status update; is now
"authen"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: assert authen status "authen"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR:  send event Session Update

```

```

*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: IDMGR: with username
"pppoe@local.com"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Session activation: ok
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client
block with handle D8000027
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Updated key list:
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   AAA-Attr-List = FB0003D0
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   ip-unnumbered      0
"loopback0"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   addr                0
179.1.1.1
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Access-Type = 0 (PPP)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Unauth-User = "pppoe@local.com"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Unauth-Domain = "local.com"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Input Interface =
"Ethernet0/1.101"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Converted-Session = 0 (NO)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Media-Type = 1 (Ethernet)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Authen-Status = 0 (Authenticated)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 101 IP 0.0.0.0 VPI 0 VCI 0 VLAN 101
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Session-Handle = 1358954575
(5100004F)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   AAA-Authen-Method-List = "AAA-4-
LOCAL"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Final = 1 (YES)
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Auth-User = "pppoe@local.com"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]:   Auth-Domain = "local.com"
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: SM Policy invoke - Got More Keys
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Access type PPP: final key
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Must apply config before continuing
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Handling Config Request from Client
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Event <got process config req>,
State: need-init-keys to need-init-keys
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Handling Process Config
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Apply config request set to AAA list
Config:   ip-unnumbered      0   "loopback0"
Config:   addr                0   179.1.1.1
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: Sending pppoe@local.com request to
AAA
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: SSS PM: Allocating per-user profile
info
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: SSS PM: Add per-user profile info to
policy context
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Root SIP PPPoE
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]:   Enable PPPoE parsing
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]:   Enable PPP parsing
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: ACTIVE HANDLE[0]: Snapshot captured
in Active context
*Jan 17 14:36:24.373: SSS PM [uid:39][B4728100][AAA ID:50]: ACTIVE HANDLE[0]: Active context
created
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Event <make request>, state changed
from idle to authorizing
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Active key set to Auth-User
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Authorizing key pppoe@local.com
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Spoofed AAA reply sent for key
pppoe@local.com
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: Received an AAA pass
*Jan 17 14:36:24.373: SSS AAA AUTHOR [uid:39][AAA ID:50]: [B4728100]:Reply message not exist
Initial attr ip-unnumbered      0   "loopback0"
Initial attr addr                0   179.1.1.1
*Jan 17 14:36:24.373: SSS PM: PARAMETERIZED-QoS: QoS parameters

```

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: VRF Parsing routine:
ip-unnumbered 0 "loopback0"
addr 0 179.1.1.1

*Jan 17 14:36:24.374: SSS PM: No VPDN attributes or policy found

*Jan 17 14:36:24.374: SSS PM LTERM [uid:39][AAA ID:50]: Process Attr: ip-unnumbered 0
"loopback0"

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Parsed service; Local

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: SIP PPP[A4700F0] parsed as Success

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: SIP PPP[B009900] parsed as Ignore

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: SIP PPPoE[A501AC0] parsed as Success

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Event <found service>, state changed
from authorizing to complete

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Found service info for key
pppoe@local.com

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Active Handle present - AC000006

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Apply config handle [AF0003D3] now
set to [270003DA]

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: ACTIVE HANDLE[0]: Snapshot reverted
from Active context to policy context

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Freeing Active Handle; SSS Policy
Context Handle = D8000027

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: ACTIVE HANDLE[2829]: Released active
handle

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: PM directive AAA:Local maps to
PM:Local Terminate

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: PROFILE: store profile
"pppoe@local.com"

*Jan 17 14:36:24.374: SSS PM: PROFILE-DB: is profile "pppoe@local.com" in DB

*Jan 17 14:36:24.374: SSS PM: PROFILE-DB: Computed hash value = 353387640

*Jan 17 14:36:24.374: SSS PM: PROFILE-DB: No, add new list

*Jan 17 14:36:24.374: SSS PM: PROFILE-DB: create "pppoe@local.com"

*Jan 17 14:36:24.374: SSS PM: PROFILE-DB: create "pppoe@local.com"/B48191BC hdl C80003DC ref
1

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: PROFILE: create B481B90C, ref 1

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Event <free request>, state changed
from complete to terminal

*Jan 17 14:36:24.374: SSS AAA AUTHOR [uid:39][AAA ID:50]: Cancel request

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Handling Author Found Event

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Plumbing proposed by FSP

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Local Terminate

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: FSP info: B45EC130/Local data:
B45EC0E0 SVM: 00000000

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Feature info: B4814320 Type: IP
Config

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: : Config level: Per-user

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: : IDB type: Sub-if or
not required

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Apply of config finished; provide
the found network service

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Network service found; continuing
rule

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Continue

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: DOMAIN/PPP-4-LOCAL event
session-start/20 authenticate aaa list AAA-4-LOCAL

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Run action with no altered
name

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: State: need-init-keys to initial-req

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[0]: Have key Auth-User

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: Continue

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: DOMAIN/PPP-4-LOCAL event
session-start/20 authenticate aaa list AAA-4-LOCAL

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: Back to parent rule

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[1]: Run next parent action

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[2]: Continue

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[2]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client block with handle D8000027

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[2]: No more actions to run

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: Continue

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[3]: Using previously offered directive Local Terminate

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[4]: Continue

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE[4]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client block with handle D8000027

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Event <srvf found>, State: initial-req to wait-for-events

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Handling Service Direction

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Local Terminate

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Plumbing proposed by FSP

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: Policy reply - Local Terminate

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Looking for a rule for event session-service-found

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Intf CloneSrc Vt2: service-rule any: PPPOE

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Evaluate "PPPOE" for session-service-found

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Not matched "PPPOE/PPP event session-start"

*Jan 17 14:36:24.374: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: No match for "PPPOE"

*Jan 17 14:36:24.375: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Intf InputI/f Et0/1.101: service-rule any: None

*Jan 17 14:36:24.375: SSS PM [uid:39][B4728100][AAA ID:50]: RULE: Glob: service-rule any: None

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: SM Policy invoke - Apply Config Success

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: [PARAMETERIZED-QoS]: No rabapol context created yet for handle [D8000027], returning compatible

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Event <got apply config success>, State: wait-for-events to wait-for-events

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Handling Apply Config; SUCCESS

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: session start done

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Removed attribute list just processed

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: no callback for callback north

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client block with handle D8000027

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Null client block; Can't update RP

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: Client block is NULL in get client block with handle D8000027

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: No pending events to process

*Jan 17 14:36:24.377: SSS PM [uid:39][B4728100][AAA ID:50]: No pending eventstst

*Jan 17 14:36:24.377: AAA/BIND(00000032): Bind i/f Virtual-Access2.1

*Jan 17 14:36:24.377: Vi2.1 PPP: Phase is AUTHENTICATING, Authenticated User

*Jan 17 14:36:24.377: Vi2.1 PAP: O AUTH-ACK id 1 len 5

*Jan 17 14:36:24.378: Vi2.1 PPP: No AAA accounting method list

*Jan 17 14:36:24.378: Vi2.1 PPP: Phase is UP

*Jan 17 14:36:24.378: Vi2.1 IPCP: Protocol configured, start CP. state[Initial]

*Jan 17 14:36:24.378: Vi2.1 IPCP: Event[OPEN] State[Initial to Starting]

*Jan 17 14:36:24.378: Vi2.1 IPCP: O CONFREQ [Starting] id 1 len 10

*Jan 17 14:36:24.378: Vi2.1 IPCP: Address 172.19.1.2 (0x0306AC130102)

*Jan 17 14:36:24.378: Vi2.1 IPCP: Event[UP] State[Starting to REQsent]

*Jan 17 14:36:24.379: Vi2.1 IPCP: I CONFREQ [REQsent] id 1 len 10

*Jan 17 14:36:24.379: Vi2.1 IPCP: Address 0.0.0.0 (0x030600000000)

*Jan 17 14:36:24.379: Vi2.1 IPCP AUTHOR: Start. Her address 0.0.0.0, we want 0.0.0.0

```
*Jan 17 14:36:24.379: Vi2.1 IPCP AUTHOR: Done. Her address 0.0.0.0, we want 179.1.1.1
*Jan 17 14:36:24.379: Vi2.1 IPCP: O CONFNAK [REQsent] id 1 len 10
*Jan 17 14:36:24.379: Vi2.1 IPCP: Address 179.1.1.1 (0x0306B3010101)
*Jan 17 14:36:24.379: Vi2.1 IPCP: Event[Receive ConfReq-] State[REQsent to REQsent]
*Jan 17 14:36:24.379: Vi2.1 CDPCP: I CONFREQ [UNKNOWN] id 1 len 4
*Jan 17 14:36:24.379: Vi2.1 LCP: O PROTREJ [Open] id 3 len 10 protocol CDPCP (0x01010004)
*Jan 17 14:36:24.379: Vi2.1 IPCP: I CONFACK [REQsent] id 1 len 10
*Jan 17 14:36:24.379: Vi2.1 IPCP: Address 172.19.1.2 (0x0306AC130102)
*Jan 17 14:36:24.379: Vi2.1 IPCP: Event[Receive ConfAck] State[REQsent to ACKrcvd]
*Jan 17 14:36:24.380: Vi2.1 IPCP: I CONFREQ [ACKrcvd] id 2 len 10
*Jan 17 14:36:24.380: Vi2.1 IPCP: Address 179.1.1.1 (0x0306B3010101)
*Jan 17 14:36:24.380: Vi2.1 IPCP: O CONFACK [ACKrcvd] id 2 len 10
*Jan 17 14:36:24.380: Vi2.1 IPCP: Address 179.1.1.1 (0x0306B3010101)
*Jan 17 14:36:24.380: Vi2.1 IPCP: Event[Receive ConfReq+] State[ACKrcvd to Open]
*Jan 17 14:36:24.401: Vi2.1 IPCP: State is Open
*Jan 17 14:36:24.401: Vi2.1 Added to neighbor route AVL tree: topoid 0, address 179.1.1.1
*Jan 17 14:36:24.401: Vi2.1 IPCP: Install route to 179.1.1.1
```

Questo output di debug riflette il modo in cui l'utente remoto basato sul nome di dominio lns.com viene autenticato e inoltrato al dispositivo LNS.

```
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: Authen status update; is now
"unauthen"
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: assert authen status
"unauthen"
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: send event Session Update
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: Username key not found in set domain
key API
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: Username key not found in set domain
key API
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: Updated NAS port for AAA ID 51
*Jan 17 14:37:17.353: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: send event Session Update
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client
block with handle 1D000028
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Updated key list:
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Input Interface =
"Ethernet0/1.102"
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Access-Type = 3 (PPPoE)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Media-Type = 1 (Ethernet)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Username key not found in set domain
key API
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Username key not found in set domain
key API
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client
block with handle 1D000028
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Updated key list:
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Input Interface =
"Ethernet0/1.102"
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Access-Type = 3 (PPPoE)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Media-Type = 1 (Ethernet)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102
*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Session-Handle = 385876049
```

(17000051)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: SM Policy invoke - Service Selection Request

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Access type PPPOE

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Successfully added key SUBTYPE_CONVERTED as FALSE

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Looking for a rule for event session-start

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Intf CloneSrc Vt2: service-rule any: PPPOE

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Evaluate "PPPOE" for session-start

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Match keys against "PPPOE":

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Input Interface = "Ethernet0/1.102"

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Converted-Session = 0 (NO)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Protocol-Type = 0 (PPP Access Protocol)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Media-Type = 1 (Ethernet)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Authen-Status = 1 (Unauthenticated)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Nasport = PPPoEoVLAN: slot 0 adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Session-Handle = 385876049 (17000051)

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match identifier protocol ppp [TRUE]

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : PPP [TRUE]

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Matched "PPPOE/PPP event session-start"

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Matched "PPPOE/PPP event session-start/11 collect identifier unauthenticated-domain "

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Start

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: PPPOE/PPP event session-start/11 collect identifier unauthenticated-domain

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: SIP [PPPoE] can provide more keys

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Need key Unauth-Domain

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: Start

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: PPPOE/PPP event session-start/11 collect identifier unauthenticated-domain

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Event <need keys>, State: initial-req to need-init-keys

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Need More Keys

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: Need: Unauth-Domain

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Asking client for more keys

*Jan 17 14:37:17.354: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Need More Keys

*Jan 17 14:37:17.355: PPP: Alloc Context [B174D034]

*Jan 17 14:37:17.355: ppp40 PPP: Phase is ESTABLISHING

*Jan 17 14:37:17.355: SSS PM: ANCP not enabled on 'Ethernet0/1.102' - not retrieving default shaper value

*Jan 17 14:37:17.355: ppp40 PPP: Using vpn set call direction

*Jan 17 14:37:17.355: ppp40 PPP: Treating connection as a callin

*Jan 17 14:37:17.355: ppp40 PPP: Session handle[8E000028] Session id[40]

*Jan 17 14:37:17.355: ppp40 LCP: Event[OPEN] State[Initial to Starting]

*Jan 17 14:37:17.355: ppp40 PPP LCP: Enter passive mode, state[Stopped]

*Jan 17 14:37:17.357: ppp40 LCP: I CONFREQ [Stopped] id 1 len 10

*Jan 17 14:37:17.357: ppp40 LCP: MagicNumber 0xBCDA70F0 (0x0506BCDA70F0)

*Jan 17 14:37:17.357: ppp40 LCP: O CONFREQ [Stopped] id 1 len 18

*Jan 17 14:37:17.357: ppp40 LCP: MRU 1492 (0x010405D4)

*Jan 17 14:37:17.357: ppp40 LCP: AuthProto PAP (0x0304C023)

*Jan 17 14:37:17.357: ppp40 LCP: MagicNumber 0x010E7131 (0x0506010E7131)
*Jan 17 14:37:17.357: ppp40 LCP: O CONFACK [Stopped] id 1 len 10
*Jan 17 14:37:17.357: ppp40 LCP: MagicNumber 0xBCDA70F0 (0x0506BCDA70F0)
*Jan 17 14:37:17.357: ppp40 LCP: Event[Receive ConfReq+] State[Stopped to ACKsent]
*Jan 17 14:37:17.357: ppp40 LCP: I CONFNAK [ACKsent] id 1 len 8
*Jan 17 14:37:17.357: ppp40 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:37:17.357: ppp40 LCP: O CONFREQ [ACKsent] id 2 len 18
*Jan 17 14:37:17.357: ppp40 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:37:17.357: ppp40 LCP: AuthProto PAP (0x0304C023)
*Jan 17 14:37:17.357: ppp40 LCP: MagicNumber 0x010E7131 (0x0506010E7131)
*Jan 17 14:37:17.357: ppp40 LCP: Event[Receive ConfNak/Rej] State[ACKsent to ACKsent]
*Jan 17 14:37:17.357: ppp40 LCP: I CONFACK [ACKsent] id 2 len 18
*Jan 17 14:37:17.357: ppp40 LCP: MRU 1500 (0x010405DC)
*Jan 17 14:37:17.357: ppp40 LCP: AuthProto PAP (0x0304C023)
*Jan 17 14:37:17.357: ppp40 LCP: MagicNumber 0x010E7131 (0x0506010E7131)
*Jan 17 14:37:17.357: ppp40 LCP: Event[Receive ConfAck] State[ACKsent to Open]
*Jan 17 14:37:17.361: ppp40 PPP: Phase is AUTHENTICATING, by this end
*Jan 17 14:37:17.361: ppp40 LCP: State is Open
***Jan 17 14:37:17.388: ppp40 PAP: I AUTH-REQ id 1 len 24 from "pppoe@lns.com"**
***Jan 17 14:37:17.388: ppp40 PAP: Authenticating peer pppoe@lns.com**
*Jan 17 14:37:17.388: ppp40 PPP: Phase is FORWARDING, Attempting Forward
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Username key not found in set domain
key API
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client
block with handle 1D000028
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Updated key list:
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Access-Type = 0 (PPP)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Input Interface =
"Ethernet0/1.102"
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Converted-Session = 0 (NO)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Media-Type = 1 (Ethernet)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Session-Handle = 385876049
(17000051)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Protocol-Type = 0 (PPP Access
Protocol)
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Unauth-User = "pppoe@lns.com"
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Unauth-Domain = "lns.com"
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: SM Policy invoke - Got More Keys
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: Access type PPP
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Start
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: PPPOE/PPP event session-
start/11 collect identifier unauthenticated-domain
*Jan 17 14:37:17.388: SSS PM [uid:40][B4728388][AAA ID:51]: State: need-init-keys to initial-req
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Have key Unauth-Domain
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: Start
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: PPPOE/PPP event session-
start/11 collect identifier unauthenticated-domain
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[2]: Start
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[2]: PPPOE/PPP event session-
start/12 service-policy type control DOMAIN
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Match keys against
"DOMAIN":
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Input Interface =
"Ethernet0/1.102"
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Converted-Session = 0 (NO)
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Media-Type = 1 (Ethernet)
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Authen-Status = 1
(Unauthenticated)
*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Nasport = PPPoEoVLAN: slot
0 adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Session-Handle = 385876049 (17000051)

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Protocol-Type = 0 (PPP Access Protocol)

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Unauth-User = "pppoe@lns.com"

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Unauth-Domain = "lns.com"

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-LOCAL

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match identifier unauthenticated-domain local.com [FALSE] [DONE]

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-LOCAL

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : PPP-4-LOCAL [FALSE]

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: No match "DOMAIN/PPP-4-LOCAL event session-start"

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-FORWARD

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match identifier unauthenticated-domain lns.com [TRUE]

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match identifier protocol ppp [TRUE]

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : [0] match-all PPP-4-FORWARD

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: CONTROL-CLASS-MAP: : PPP-4-FORWARD [TRUE]

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Matched "DOMAIN/PPP-4-FORWARD event session-start"

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: Start

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: DOMAIN/PPP-4-FORWARD event session-start/20 authenticate aaa list AAA-4-FORWARD

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: SIP [PPP] can provide more keys

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: Using AAA-Authen-Method-List AAA-4-FORWARD

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: Need key Auth-User

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[4]: Start

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[4]: DOMAIN/PPP-4-FORWARD event session-start/20 authenticate aaa list AAA-4-FORWARD

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: Event <need keys>, State: initial-req to need-init-keys

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Need More Keys

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: Need: Auth-User

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: ask for authen status

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: request, Query Session Authenticated Status

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: reply, Query Session Authenticated Status = no-record-found

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: IDMGR: session NOT authenticated

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: Event <idmgr didn't get keys>, State: need-init-keys to need-init-keys

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: Asking client for more keys

*Jan 17 14:37:17.389: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Need More Keys

*Jan 17 14:37:17.389: ppp40 PPP: Phase is AUTHENTICATING, Unauthenticated User

***Jan 17 14:37:17.389: AAA/AUTHEN/PPP (00000033): Pick method list 'AAA-4-FORWARD' <== correct method**

***Jan 17 14:37:17.389: RADIUS/ENCODE(00000033):Orig. component type = PPPoE**

***Jan 17 14:37:17.389: RADIUS: DSL line rate attributes successfully added**

*Jan 17 14:37:17.390: RADIUS(00000033): Config NAS IP: 172.17.21.6

*Jan 17 14:37:17.390: RADIUS(00000033): Config NAS IPv6: ::

*Jan 17 14:37:17.390: RADIUS/ENCODE(00000033): acct_session_id: 41

*Jan 17 14:37:17.390: RADIUS(00000033): sending

*Jan 17 14:37:17.390: RADIUS(00000033): Send Access-Request to 172.16.21.5:11645 id 1645/51, len 135


```

*Jan 17 14:37:17.390: RADIUS: authenticator 76 AF BF 7B 54 7B 38 A7 - 2A BB EF 93 CB BA 0A 45
*Jan 17 14:37:17.390: RADIUS: Framed-Protocol [7] 6 PPP [1]
*Jan 17 14:37:17.390: RADIUS: User-Name [1] 15 "pppoe@lns.com"
*Jan 17 14:37:17.390: RADIUS: User-Password [2] 18 *
*Jan 17 14:37:17.390: RADIUS: NAS-Port-Type [61] 6 Virtual [5]
*Jan 17 14:37:17.390: RADIUS: NAS-Port [5] 6 0
*Jan 17 14:37:17.390: RADIUS: NAS-Port-Id [87] 11 "0/0/1/102"
*Jan 17 14:37:17.390: RADIUS: Vendor, Cisco [26] 41
*Jan 17 14:37:17.390: RADIUS: Cisco AVpair [1] 35 "client-mac-address=aabb.cc00.d210"
*Jan 17 14:37:17.390: RADIUS: Service-Type [6] 6 Framed [2]
*Jan 17 14:37:17.390: RADIUS: NAS-IP-Address [4] 6 172.17.21.6 <=== Correct NAS
(source ip)
*Jan 17 14:37:17.390: RADIUS(00000033): Sending a IPv4 Radius Packet
*Jan 17 14:37:17.390: RADIUS(00000033): Started 5 sec timeout
*Jan 17 14:37:17.391: RADIUS: Received from id 1645/51 172.16.21.5:11645, Access-Accept, len 105
*Jan 17 14:37:17.391: RADIUS: authenticator 3C 38 A2 16 EA 26 BE 4A - FD 69 49 CA E5 69 E7 04
*Jan 17 14:37:17.391: RADIUS: Service-Type [6] 6 Outbound [5]
*Jan 17 14:37:17.391: RADIUS: Tunnel-Type [64] 6 00:L2TP [3]
*Jan 17 14:37:17.391: RADIUS: Framed-Protocol [7] 6 PPP [1]
*Jan 17 14:37:17.391: RADIUS: Tunnel-Medium-Type [65] 6 00:IPv4 [1]
*Jan 17 14:37:17.391: RADIUS: Tunnel-Client-Auth-I [90] 16 "lac-via-radius"
*Jan 17 14:37:17.391: RADIUS: Tunnel-Password [69] 21 00:*
*Jan 17 14:37:17.391: RADIUS: Tunnel-Server-Endpoi [67] 12 "172.19.1.1"
*Jan 17 14:37:17.391: RADIUS: Tunnel-Client-Endpoi [66] 12 "172.19.1.2"
*Jan 17 14:37:17.391: RADIUS(00000033): Received from id 1645/51
*Jan 17 14:37:17.391: ppp40 PPP: Phase is FORWARDING, Attempting Forward
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: Authen status update; is now
"authen"
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: IDMGR: assert authen status "authen"
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: IDMGR: send event Session Update
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: IDMGR: with username
"pppoe@lns.com"
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: Session activation: ok
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: Client block is NULL in get client
block with handle 1D000028
*Jan 17 14:37:17.391: SSS PM [uid:40] [B4728388] [AAA ID:51]: Updated key list:
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: AAA-Attr-List = F50003F4
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: service-type 0 5
[Outbound]
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-type 0 3
[l2tp]
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Framed-Protocol 0 1 [PPP]
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-medium-type 0 1
[IPv4]
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-id 0 "lac-
via-radius"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-password 0
<hidden>
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-server-endpoi 0
"172.19.1.1"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: tunnel-client-endpoi 0
"172.19.1.2"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Access-Type = 0 (PPP)
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Unauth-User = "pppoe@lns.com"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Unauth-Domain = "lns.com"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Input Interface =
"Ethernet0/1.102"
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Converted-Session = 0 (NO)
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Media-Type = 1 (Ethernet)
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Authen-Status = 0 (Authenticated)
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Nasport = PPPoEoVLAN: slot 0
adapter 0 port 1 sub-interface 102 IP 0.0.0.0 VPI 0 VCI 0 VLAN 102
*Jan 17 14:37:17.392: SSS PM [uid:40] [B4728388] [AAA ID:51]: Session-Handle = 385876049
(17000051)

```

```

*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: AAA-Authen-Method-List = "AAA-4-FORWARD"
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Protocol-Type = 0 (PPP Access Protocol)
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Final = 1 (YES)
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Auth-User = "pppoe@lns.com"
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Auth-Domain = "lns.com"
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: SM Policy invoke - Got More Keys
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Access type PPP: final key
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Must apply config before continuing
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Handling Config Request from Client
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Event <got process config req>, State: need-init-keys to need-init-keys
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Handling Process Config
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Apply config request set to AAA list
Config: service-type 0 5 [Outbound]
Config: tunnel-type 0 3 [l2tp]
Config: Framed-Protocol 0 1 [PPP]
Config: tunnel-medium-type 0 1 [IPv4]
Config: tunnel-id 0 "lac-via-radius"
Config: tunnel-password 0 <hidden>
Config: tunnel-server-endpoi 0 "172.19.1.1"
Config: tunnel-client-endpoi 0 "172.19.1.2"
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: Sending pppoe@lns.com request to AAA
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: SSS PM: Allocating per-user profile info
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: SSS PM: Add per-user profile info to policy context
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Root SIP PPPoE
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Enable PPPoE parsing
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Enable PPP parsing
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: ACTIVE HANDLE[0]: Snapshot captured in Active context
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: ACTIVE HANDLE[0]: Active context created
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Event <make request>, state changed from idle to authorizing
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Active key set to Auth-User
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Authorizing key pppoe@lns.com
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Spoofed AAA reply sent for key pppoe@lns.com
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Received an AAA pass
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: [B4728388]:Reply message not exist
Initial attr service-type 0 5 [Outbound]
Initial attr tunnel-type 0 3 [l2tp]
Initial attr Framed-Protocol 0 1 [PPP]
Initial attr tunnel-medium-type 0 1 [IPv4]
Initial attr tunnel-id 0 "lac-via-radius"
Initial attr tunnel-password 0 <hidden>
Initial attr tunnel-server-endpoi 0 "172.19.1.1"
Initial attr tunnel-client-endpoi 0 "172.19.1.2"
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: policy key list doesn't have IPv4 address
*Jan 17 14:37:17.392: SSS PM: PARAMETERIZED-QoS: QoS parameters
*Jan 17 14:37:17.392: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: VRF Parsing routine:
service-type 0 5 [Outbound]
tunnel-type 0 3 [l2tp]
Framed-Protocol 0 1 [PPP]
tunnel-medium-type 0 1 [IPv4]
tunnel-id 0 "lac-via-radius"
tunnel-password 0 <hidden>
tunnel-server-endpoi 0 "172.19.1.1"
tunnel-client-endpoi 0 "172.19.1.2"
*Jan 17 14:37:17.392: SSS AAA AUTHOR [uid:40][AAA ID:51]: Parsed service; VPDN

```

*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: SIP PPP[A4700F0] parsed as Success
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: SIP PPP[B009900] parsed as Ignore
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: SIP PPPoE[A501AC0] parsed as Success
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Event <found service>, state changed from authorizing to complete
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Found service info for key pppoe@lns.com
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Active Handle present - FB000007
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Apply config handle [750003F8] now set to [180003FE]
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: ACTIVE HANDLE[0]: Snapshot reverted from Active context to policy context
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Freeing Active Handle; SSS Policy Context Handle = 1D000028
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: ACTIVE HANDLE[2829]: Released active handle
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: PM directive AAA:VPDN maps to PM:Forwarding
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: PROFILE: store profile "pppoe@lns.com"
*Jan 17 14:37:17.393: SSS PM: PROFILE-DB: is profile "pppoe@lns.com" in DB
*Jan 17 14:37:17.393: SSS PM: PROFILE-DB: Computed hash value = 2347614612
*Jan 17 14:37:17.393: SSS PM: PROFILE-DB: No, add new list
*Jan 17 14:37:17.393: SSS PM: PROFILE-DB: create "pppoe@lns.com"
*Jan 17 14:37:17.393: SSS PM: PROFILE-DB: create "pppoe@lns.com"/B48191D8 hdl 4D000400 ref 1
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: PROFILE: create B481B924, ref 1
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Event <free request>, state changed from complete to terminal
*Jan 17 14:37:17.393: SSS AAA AUTHOR [uid:40][AAA ID:51]: Cancel request
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Handling Author Found Event
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Plumbing proposed by FSP
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Forwarding
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: FSP info: B45F7020/VPDN data: B460E1C8 SVM: 00000000
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Apply of config finished; provide the found network service
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Network service found; continuing rule
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Continue
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: DOMAIN/PPP-4-FORWARD event session-start/20 authenticate aaa list AAA-4-FORWARD
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Run action with no altered name
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: State: need-init-keys to initial-req
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[0]: Have key Auth-User
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: Continue
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: DOMAIN/PPP-4-FORWARD event session-start/20 authenticate aaa list AAA-4-FORWARD
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: Back to parent rule
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[1]: Run next parent action
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[2]: Continue
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[2]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client block with handle 1D000028
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[2]: No more actions to run
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: Continue
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[3]: Using previously offered directive Forwarding
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[4]: Continue
*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE[4]: PPPOE/PPP event session-start/12 service-policy type control DOMAIN

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client block with handle 1D000028

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Event <srvf found>, State: initial-req to wait-for-events

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Handling Service Direction

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Forwarding

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Plumbing proposed by FSP

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: Policy reply - Forwarding

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Looking for a rule for event session-service-found

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Intf CloneSrc Vt2: service-rule any: PPPOE

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Evaluate "PPPOE" for session-service-found

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Not matched "PPPOE/PPP event session-start"

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: No match for "PPPOE"

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Intf InputI/f Et0/1.102: service-rule any: None

*Jan 17 14:37:17.393: SSS PM [uid:40][B4728388][AAA ID:51]: RULE: Glob: service-rule any: None

*Jan 17 14:37:17.393: SSS PM: ANCP not enabled on 'Ethernet0/1.102' - not retrieving default shaper value

*Jan 17 14:37:17.393: SSS PM: ANCP not enabled on 'Ethernet0/1.102' - not retrieving default shaper value

*Jan 17 14:37:17.394: ppp40 PPP: No AAA accounting method list

*Jan 17 14:37:17.397: SSS PM: ANCP not enabled on 'Ethernet0/1.102' - not retrieving default shaper value

*Jan 17 14:37:17.397: SSS PM: ANCP not enabled on 'Ethernet0/1.102' - not retrieving default shaper value

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: SM Policy invoke - Apply Config Success

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: [PARAMETERIZED-QoS]: No rabapol context created yet for handle [1D000028], returning compatible

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Event <got apply config success>, State: wait-for-events to wait-for-events

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Handling Apply Config; SUCCESS

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: session start done

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Removed attribute list just processed

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: no callback for callback north

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client block with handle 1D000028

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Null client block; Can't update RP

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: Client block is NULL in get client block with handle 1D000028

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: No pending events to process

*Jan 17 14:37:17.397: SSS PM [uid:40][B4728388][AAA ID:51]: No pending eventstst

*Jan 17 14:37:17.397: ppp40 PPP: Phase is FORWARDED, Session Forwarded