# Configure AnyConnect LDAP mapping on Firepower Threat Defense (FTD)

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## Introduction

This document provides a configuration example of Lightweight Directory Access Protocol (LDAP) mapping for AnyConnect users on Firepower Threat Defense (FTD) using a Firepower Management Center (FMC) FlexConfig policy. This configuration is used to allow specific users that belong to an Active Directory (AD) group to establish a Virtual Private Network (VPN) connection. Users from different AD groups not defined on the map won't be able to connect with the same profile.

# Prerequisites

### Requirements

Cisco recommends that you have knowledge on these topics:

- AD realm configuration on FMC
- Windows Active Directory
- AnyConnect (SSLVPN) configuration on FMC
- Basic knowledge of FlexConfig objects on FMC

## **Components Used**

- FirePower Manager Center (FMC) version 6.2.3 and 6.5.0
- FirePower Threat Defense (FTD) version 6.2.3 and 6.5.0
- Windows Server with Active Directory

# Configure

### **Configuration on the FTD**

In this example, users that belong to AD Group1 use a tunnel-all configuration and users that belong to AD Group2 have limited access to specific hosts. All other users that don't belong to these groups can't be authenticated.

Step 1. Configure AnyConnect using LDAP authentication and deploy the changes. An example can be found on <u>this guide</u>.

Step 2. Navigate to Devices > Remote Access > Edit AnyConnect Policy > Advanced > Group Policies.

~

Step 3. Create 3 different group-policies:

Calls Course Dalling

• Group1 with Split Tunneling configuration set to Allow all traffic over tunnel.

ne:"	Group1			
cription:				
ieneral Any	Connect	Advanced		
N Protocols		IPv4 Split Tunneling:	Allow all traffic over tunnel	*
Address Pools nner		IPv6 Split Tunneling:	Allow all traffic over tunnel	*
IS/WINS		Split Tunnel Network List Type:	Standard Access List O Extended Access L	ist
lit Tunneling		Standard Access List:	Split	~ O
		DNS Request Split Tunneling		
		DNS Requests:	Send DNS requests as per split tunnel policy	~
		Domain List:		

• Group2 with Split Tunneling configuration set to Split.

### Edit Group Policy

Name:*	Group2			
Description:				
General	AnyConnect	Advanced		
VPN Protoco IP Address P Banner DNS/WINS Split Tunnel	ols Pools ing	IPv4 Split Tunneling: IPv6 Split Tunneling: Split Tunnel Network List Type: Standard Access List: DNS Request Split Tunneling DNS Requests:	Tunnel networks specified below Allow all traffic over tunnel Standard Access List C Extended Access I Split Send DNS requests as per split tunnel policy	× List ×
			Save	Cancel

• NOACCESS group for users that do not belong to any of the previous groups. The field **Simultaneous Login Per User** must be set to 0.

Edit Group Pol	icy					? ×
Name:*	NOACCE	SS				
Description:						
	_					
General Anyo	Connect	Advanced				
Traffic Filter		Access Hours:			< 🔾	
Session Settings		Simultaneous Login Per User:	0	(Range 0	-2147483647)	
		Connection Time				
		Max Connection Time:		Minutes	(Range 1-4473924)	
		Alert Interval:	1	Minutes	(Range 1-30)	
		Idle Time				
		Idle Timeout:	30	Minutes	(Range 1-35791394	)
		Alert Interval:	1	Minutes	(Range 1-30)	
					Save Canc	el

Step 4. Assign the NOACCESS group-policy to the connection profile.

### Edit Connection Profile

Connection Profile: AnyConnec	t	
Group Policy:* NOACCESS Edit Group P	S 🗸 🖉 🔇 Policy	
Client Address Assignment Address	AA Aliases	
IP Address for the remote clients can 'Client Address Assignment Policy' in	be assigned from local IP Address pools/DHCP Servers/AAA Servers. Con the Advanced tab to define the assignment criteria.	figure the
Address Pools:		0-
Name	IP Address Range	
SSL	10.10.10.1-10.10.10	08
DHCP Servers:		0
Name	DHCP Server IP Address	
Configure device overrides in the add	dress pool object to avoid IP address conflicts in case of object is shared across i	multiple devices
	Save	Cancel

Step 5. Navigate to Object > Object Managemen t> FlexConfig > FlexConfig Object > Add FlexConfig Object.

Step 6. Add the necessary memberOf values required for the LDAP attribute-map configuration. To get the Group DN from the server you can use the command "dsquery samid - group <group-name>".

The Deployment needs to be set as Once and Type as Prepend.

Tip: Attribute Names and Values are Case-Sensitive. If the mapping does not occur properly, be certain that the correct spelling and capitalization has been used in the LDAP attribute map for *both*the Cisco and LDAP attribute names and values.

Name:       LDAPattributeMAP         Description:	exConfig Obje	ect							?
escription: Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment. Interior I Deployment: Once Type: Preper Idag attribute-map MAP map-name memberOf Group-Policy map-value memberOf "CN=group1, CN=Users, DC=cisco, DC=com" Group1 map-value memberOf "CN=group2, CN=Users, DC=cisco, DC=com" Group2 Variables Name Dimension Default Value Property (Typ Override Description No records to display	LDAPa	attributeMAP							
A Copy-pasting any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.       Deployment: Once ? Type: Preprint and Prepreprint and Preprint and Preprint and Prepri	tion:								
Ar Copy-passing any non-text might introduce into preach while generating CLI. Prease Verify the CLI belove deployment.       Deployment: Once © Type: Preper Prepe Preper Prepe Prepe Prepe Preper Preper Prepe Preper Prepe Prepe		ich taut might intradu	ee liee beesle while ee	anation CLI. Blance world	who CLI before dealerme				
Idap attribute-map MAP         map-name memberOf       Group-Policy         map-value memberOf       "CN=group1, CN=Users, DC=cisco, DC=com"         map-value memberOf       "CN=group2, CN=Users, DC=cisco, DC=com"         Group2       "CN=group2, CN=Users, DC=cisco, DC=com"         Mame       Dimension       Default Value       Property (Typ       Override       Description         No records to display	Insert -	C	ce line breaks while ge	enerating CLI. Please vening	y the CLI before deployme	Deployment:	Once 🗘	Type: Prepe	nd 📢
Dimension         Default Value         Property (Typ         Override         Description	p-value mem	nberOf "CN-gr	coup1, <u>CN</u> =User coup2, <u>CN</u> =User	s,DC= <u>cisco</u> ,DC=c s,DC= <u>cisco</u> ,DC=c	com" Group1 com" Group2				
No records to display	e		Dimension	Default Value	Property (Typ	Override	Description		6
				No records t	o display				

Step 7. Create another FlexConfig Object named AAAserverLDAPmapping. This Object attaches the attribute-map to the aaa-server configuration.

The Deployment values need to be set as *Everytime* and Type as *Append*.

#### Add FlexConfig Object

Name:	AAAserverLDAPmapping						
Description:							
Copy-pasting	g any rich text might introduc	e line breaks while g	enerating CLI. Please veri	fy the CLI before deploym	ient.		
🔇 Insert 👻					Deployment:	Everytime 🔉	Type: Append 📀
aaa-server ldap-attr	: LDAP host 192.1 <u>sibute-map</u> MAP	68.109.29					
Variables							
Name		Dimension	Default Value	Property (Typ	Override	Description	
			No records t	o display			
						Sa	ve Cancel

Step 8. Navigate to Devices > FlexConfig > Edit current FlexConfig. Ensure that the order of the FlexConfig objects in the FlexConfig Policy is first the LDAP Attribute Map FlexConfig object followed by the AAA-server object.

Step 9. Deploy the configuration to the device to send this configuration to the managed device.

In order to add an extra entry on the LDAP map, modify the existing FlexConfig LDAPAtributeMAP Object to ONLY include the new map-value.

Edit FlexConfig	Object				? ×
Name:	LDAPattributeMAP				
Description:					
🛆 Copy-pastin	g any rich text might introduce line breaks while generating CLI. Please verify the CLI before deployment.				
🔘 Insert 🔹		Deployment:	Once ᅌ	Type:	Prepend ᅌ
ldap attr: map-value	bute-map MAP memberOf "CN=group3,CN=Users,DC=cisco,DC=com" Group3				

## Verify

Connect to the FTD CLISH and issue these commands to ensure that the users on the defined groups are able to connect.

```
> show vpn-sessiondb anyconnect
```

Session Type: AnyConnect

```
Index : 25
Public IP : 192.168.109.80
           : ciscol
Username
Assigned IP : 10.10.10.1
Protocol : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel
           : AnyConnect Premium
License
Encryption : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-256 DTLS-Tunnel: (1)AES256
Hashing: AnyConnect-Parent: (1)noneSSL-Tunnel: (1)SHA384DTLS-Tunnel: (1)SHA1Bytes Tx: 15820Bytes Rx: 160
           : 15820
Group Policy : Group1
                                    Tunnel Group : AnyConnect
Login Time : 16:02:45 UTC Tue Oct 9 2018
Duration : 0h:00m:38s
Inactivity : 0h:00m:00s
VLAN Mapping : N/A
                                    VLAN : none
Audt Sess ID : 0000000000190005bbcd125
Security Grp : none
                                    Tunnel Zone : 0
```

> show vpn-sessiondb anyconnect

Session Type: AnyConnect

Public IP : 107 Username : cisco2 Assigned IP : 11.11.11.1 : 192.168.109.80 Protocol : AnyConnect-Parent SSL-Tunnel DTLS-Tunnel License : AnyConnect Premium Encryption : AnyConnect-Parent: (1)none SSL-Tunnel: (1)AES-GCM-256 DTLS-Tunnel: (1)AES256 Hashing : AnyConnect-Parent: (1)none SSL-Tunnel: (1)SHA384 DTLS-Tunnel: (1)SHA1 Bytes Tx : 15820 Bytes Rx : 442 Group Policy : Group2 Tunnel Group : AnyConnect Login Time : 16:04:12 UTC Tue Oct 9 2018 : 0h:00m:14s Duration Inactivity : 0h:00m:00s VLAN Mapping : N/A VLAN : none Audt Sess ID : 00000000001a0005bbcd17c Security Grp : none Tunnel Zone : 0

## Troubleshoot

### Debugs:

In order to check the LDAP transaction, you can use these debug commands.

> system support diagnostic-cli
debug ldap 250
debug aaa common 250
These are examples of successful output for each debug command.

#### firepower# debug 1dap 250

debug ldap enabled at level 250
firepower#
[49] Session Start
[49] New request Session, context 0x00002aaad332f100, reqType = Authentication
[49] Fiber started
[49] Creating LDAP context with uri=ldap://192.168.109.29:389

```
[49] Connect to LDAP server: ldap://192.168.109.29:389, status = Successful
[49] supportedLDAPVersion: value = 3
[49] supportedLDAPVersion: value = 2
[49] LDAP server 192.168.109.29 is Active directory
[49] Binding as AdminFTD
[49] Performing Simple authentication for AdminFTD to 192.168.109.29
[49] LDAP Search:
       Base DN = [DC=cisco, DC=com]
       Filter = [samaccountname=cisco1]
       Scope = [SUBTREE]
[49] User DN = [CN=cisco1, CN=Users, DC=cisco, DC=com]
[49] Talking to Active Directory server 192.168.109.29
[49] Reading password policy for ciscol, dn:CN=ciscol,CN=Users,DC=cisco,DC=com
[49] Read bad password count 1
[49] Binding as ciscol
[49] Performing Simple authentication for ciscol to 192.168.109.29
[49] Processing LDAP response for user ciscol
[49] Message (ciscol):
[49] Authentication successful for ciscol to 192.168.109.29
[49] Retrieved User Attributes:
[49]
     objectClass: value = top
[49]
       objectClass: value = person
      objectClass: value = organizationalPerson
[49]
[49] objectClass: value = user
[49]
      cn: value = ciscol
[49]
      givenName: value = ciscol
      distinguishedName: value = CN=cisco1,CN=Users,DC=cisco,DC=com
[49]
[49]
      instanceType: value = 4
[49]
       whenCreated: value = 20181009153032.0Z
[49]
       whenChanged: value = 20181009154032.0Z
[49]
       displayName: value = cisco1
      uSNCreated: value = 856333
[49]
     memberOf: value = CN=group1,CN=Users,DC=cisco,DC=com
[49]
[49]
               mapped to Group-Policy: value = Group1
               mapped to LDAP-Class: value = Group1
[49]
[49]
      uSNChanged: value = 856372
       name: value = ciscol
[49]
[49]
      objectGUID: value = .K.'..3N....Q...
[49]
      userAccountControl: value = 66048
[49]
      badPwdCount: value = 1
[49]
      codePage: value = 0
       countryCode: value = 0
[49]
      badPasswordTime: value = 131835752510299209
[49]
[49]
       lastLogoff: value = 0
      lastLogon: value = 131835733331105504
[49]
      pwdLastSet: value = 131835726324409149
[49]
[49]
      primaryGroupID: value = 513
[49]
      objectSid: value = .....E1.E.G..9..@s...
      adminCount: value = 1
[49]
[49]
       accountExpires: value = 9223372036854775807
       logonCount: value = 0
[49]
      sAMAccountName: value = ciscol
[49]
[49]
      sAMAccountType: value = 805306368
[49]
      userPrincipalName: value = ciscol@cisco.com
[49]
       objectCategory: value = CN=Person, CN=Schema, CN=Configuration, DC=cisco, DC=com
       dSCorePropagationData: value = 20181009153316.0Z
[49]
       dSCorePropagationData: value = 16010101000000.0Z
[49]
       lastLogonTimestamp: value = 131835732321783732
[49]
[49] Fiber exit Tx=551 bytes Rx=2628 bytes, status=1
[49] Session End
```

#### firepower# debug aaa common 250

debug aaa common enabled at level 250

```
firepower# AAA API: In aaa_open
AAA session opened: handle = 31
AAA API: In aaa_process_async
aaa_process_async: sending AAA_MSG_PROCESS
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 0
[31] AAA FSM: In AAA_StartAAATransaction
[31] AAA FSM: In AAA_InitTransaction
Initiating authentication to primary server (Svr Grp: LDAP-29)
_____
[31] AAA FSM: In AAA_BindServer
[31] AAA_BindServer: Using server: 192.168.109.29
[31] AAA FSM: In AAA_SendMsg
User: ciscol
Resp:
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa_backend_callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp
Back End response:
------
Authentication Status: 1 (ACCEPT)
[31] AAA FSM: In AAA_NextFunction
AAA NextFunction: i fsm state = IFSM PRIM AUTHENTICATE, auth status = ACCEPT
AAA_NextFunction: authen svr = LDAP-29, author svr = <none>, user pol = Group1, tunn pol =
NOACCESS
AAA NextFunction: New i fsm state = IFSM USER GRP POLICY,
[31] AAA FSM: In AAA_InitTransaction
aaai_policy_name_to_server_id(Group1)
Got server ID 0 for group policy DB
Initiating user group policy lookup (Svr Grp: GROUP_POLICY_DB)
_____
[31] AAA FSM: In AAA_BindServer
[31] AAA_BindServer: Using server: <Internal Server>
[31] AAA FSM: In AAA_SendMsg
User: Group1
Resp:
grp_policy_ioctl(0x00002b4ad31fd460, 114698, 0x00002b4ad7423430)
grp_policy_ioctl: Looking up Group1
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa_backend_callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp
Back End response:
------
User Group Policy Status: 1 (ACCEPT)
[31] AAA FSM: In AAA_NextFunction
AAA_NextFunction: i_fsm_state = IFSM_USER_GRP_POLICY, auth_status = ACCEPT
AAA_NextFunction: New i_fsm_state = IFSM_TUNN_GRP_POLICY,
[31] AAA FSM: In AAA_InitTransaction
aaai_policy_name_to_server_id(NOACCESS)
Got server ID 0 for group policy DB
Initiating tunnel group policy lookup (Svr Grp: GROUP_POLICY_DB)
    _____
[31] AAA FSM: In AAA_BindServer
```

[31] AAA\_BindServer: Using server: <Internal Server>

```
[31] AAA FSM: In AAA_SendMsg
User: NOACCESS
Resp:
grp_policy_ioctl(0x00002b4ad31fd460, 114698, 0x00002b4ad7423430)
grp_policy_ioctl: Looking up NOACCESS
callback_aaa_task: status = 1, msg =
[31] AAA FSM: In aaa_backend_callback
aaa backend callback: Handle = 31, pAcb = 0x00002aaad352bc80
AAA task: aaa_process_msg(0x00002b4ad7423b20) received message type 1
[31] AAA FSM: In AAA_ProcSvrResp
Back End response:
_____
Tunnel Group Policy Status: 1 (ACCEPT)
[31] AAA FSM: In AAA_NextFunction
AAA_NextFunction: i_fsm_state = IFSM_TUNN_GRP_POLICY, auth_status = ACCEPT
dACL processing skipped: no ATTR_FILTER_ID found
AAA_NextFunction: New i_fsm_state = IFSM_DONE,
[31] AAA FSM: In AAA_ProcessFinal
Checking simultaneous login restriction (max allowance=3) for user ciscol
Class attribute created from LDAP-Class attribute
[31] AAA FSM: In AAA_Callback
user attributes:
 1
     User-Name(1)
                     6
                           "cisco1"
      User-Password(2) 13 (hidden)
 2
 3
      Group-Policy(4121)
                           6 "Group1"
      AAA-AVP-Table(4243) 1639 "g[06][00][00]$[00][00][00]x[01][00][00][8F][01][00][00]"
 4
 5
      DAP class attribute required(20510)
                                            4
                                                1
 6
      LDAP-Class(20520) 7 "Group1[00]"
User Access-Lists:
user_acl[0] = NULL
user_acl[1] = NULL
user policy attributes:
                                              <--- Group-Policy Configuration (Group1)</pre>
     Filter-Id(11) 8
                            ....
 1
      Session-Timeout(27)
 2
                            4
                                  0
      Idle-Timeout(28) 4 30
 3
     Simultaneous-Logins(4098) 4
 4
                                        3
 5
     Primary-DNS(4101) 4 IP: 0.0.0.0
                            4 IP: 0.0.0.0
 6
     Secondary-DNS(4102)
 7
                           4 IP: 0.0.0.0
     Primary-WINS(4103)
      Secondary-WINS(4104)
                             4 IP: 0.0.0.0
 8
 9
      Tunnelling-Protocol(4107)
                                  4
                                       96
      Banner(4111) 0 0x00002aaad49daa38
10
                                               ** Unresolved Attribute **
      Split-Tunnel-Inclusion-List(4123) 8
                                               ....
11
      Default-Domain-Name(4124) 0 0x00002aaad49daa41 ** Unresolved Attribute **
12
      Secondary-Domain-Name-List(4125) 0 0x00002aaad49daa42 ** Unresolved Attribute
13
* *
14
      Split-Tunneling-Policy(4151)
                                  4
                                           0
      Group-giaddr(4157) 4 IP: 0.0.0.0
15
16
      WebVPN SVC Keepalive interval(4203) 4
                                                20
17
      WebVPN SVC Client DPD period(4204)
                                           4 30
18
      WebVPN SVC Gateway DPD period(4205)
                                           4
                                                30
19
      WebVPN SVC Rekey period(4206)
                                    4
                                           0
      WebVPN SVC Rekey method(4207)
                                      4
20
                                           0
                                    4
                                         0
21
      WebVPN SVC Compression(4208)
      WebVPN SVC Firewall Rule(4211)
                                      17
                                          "public#,private#,"
22
23
      WebVPN SVC DTLS Compression(4213)
                                          4
                                             0
      WebVPN SVC DTLS enable(4219) 4
                                         1
24
25
      WebVPN SVC MTU(4221) 4 1406
                          4 "dart"
26
      CVC-Modules(4223)
      CVC-Profile(4224) 11
                               "FTD03#user,"
27
      CVC-Ask(4227) 4 2
 28
```

```
29
      CVC-Ask-Timeout(4228) 4
                              0
      VLAN ID(4236) 4
30
                         0
31
     WebVPN Idle timeout alert interval(4244)
                                         4 1
     WebVPN Session timeout alert interval(4245) 4 1
32
33
     List of address pools to assign addresses from(4313) 3
                                                         "SSL"
     SVC ignore DF bit(4326) 4 0
34
      Configure the behaviour of DNS queries by the client when Split tunneling is
35
enabled(4328) 4 0
                           Primary-IPv6-DNS(4329)
36
Client Bypass Protocol(4331) 4 0
   IPv6-Split-Tunneling-Policy(4332)
                                    4
                                         0
39
User Policy Access-Lists:
user_acl[0] = NULL
user_acl[1] = NULL
tunnel policy attributes:
                                                   <--- Default Group-Policy
attributes (NOACCESS)
                         . .
 1 Filter-Id(11) 8
 2
     Session-Timeout(27) 4
                              0
     Idle-Timeout(28) 4 30
 3
    Simultaneous-Logins(4098) 4
 4
                                   0
 5
     Primary-DNS(4101) 4 IP: 0.0.0.0
                        4 IP: 0.0.0.0
 6
     Secondary-DNS(4102)
 7
                        4 IP: 0.0.0.0
     Primary-WINS(4103)
     Secondary-WINS(4104) 4 IP: 0.0.0.0
 8
 9
     Tunnelling-Protocol(4107)
                              4
                                  96
     Banner(4111) 0 0x00002aaad2580328 ** Unresolved Attribute **
10
                        8 "NOACCESS"
11
      Group-Policy(4121)
12
      Split-Tunnel-Inclusion-List(4123) 8
                                         . . .
      Default-Domain-Name(4124) 0 0x00002aaad2580331 ** Unresolved Attribute **
13
      Secondary-Domain-Name-List(4125) 0 0x00002aaad2580332 ** Unresolved Attribute
14
* *
15
     Split-Tunneling-Policy(4151)
                                 4 0
      Group-giaddr(4157) 4 IP: 0.0.0.0
16
17
      WebVPN SVC Keepalive interval(4203) 4
                                           20
      WebVPN SVC Client DPD period(4204)
18
                                       4
                                           30
19
      WebVPN SVC Gateway DPD period(4205)
                                      4
                                          30
20
     WebVPN SVC Rekey period(4206) 4
                                      0
21
     WebVPN SVC Rekey method(4207)
                                  4 0
                                4 0
2.2
     WebVPN SVC Compression(4208)
     WebVPN SVC Firewall Rule(4211)
                                 17 "public#,private#,"
23
                                     4
     WebVPN SVC DTLS Compression(4213)
24
                                         0
25
      WebVPN SVC DTLS enable(4219) 4
                                      1

        WebVPN SVC MTU(4221)
        4
        1406

        CVC-Modules(4223)
        4
        "dart"

        CVC-Profile(4224)
        11
        "FTD03#u

26
27
28
                            "FTD03#user,"
     CVC-Ask(4227) 4 2
29
30
     CVC-Ask-Timeout(4228)
                          4 0
     VLAN ID(4236) 4 0
31
32
      WebVPN Idle timeout alert interval(4244)
                                           4
33
      WebVPN Session timeout alert interval(4245) 4 1
34
     SVC ignore DF bit(4326) 4 0
35
     Configure the behaviour of DNS queries by the client when Split tunneling is
enabled(4328) 4 0
   Primary-IPv6-DNS(4329)
                           36
Client Bypass Protocol(4331) 4 0
39
   IPv6-Split-Tunneling-Policy(4332) 4
                                         0
Tunnel Policy Access-Lists:
user_acl[0] = NULL
user_acl[1] = NULL
```

Auth Status = ACCEPT aaai\_internal\_cb: handle is 31, pAcb is 0x00002aaad352bc80, pAcb->tq.tqh\_first is 0x0000000000000 AAA API: In aaa\_close Checking simultaneous login restriction (max allowance=3) for user ciscol AAA task: aaa\_process\_msg(0x00002b4ad7423b20) received message type 2 In aaai\_close\_session (31) AAA API: In aaa\_send\_acct\_start