HiveOS\_SIP2\_Support\_TestCase

Revision History

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| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 0.1 | 10/22/2010 | Yun Feng | Initial version |
| 0.2 | 03/10/2011 | Yun Feng | Add some case for SE respond |
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Table of Content

Glossary and Abbreviations

# Introduction

To improve efficiency, public libraries have adopted a wide range of self-service tools. Web self-service and self-checkout machines have increased patron service without significant increases in staff. Self-service tools are based on the technology in 3M’s Standard Interchange Protocol, version 2 (SIP2) [1].

Many libraries offer Internet access over Wi-Fi networks as well. A growing number of libraries authenticate Internet access by using the patron records in the Integrated Library System (ILS). The ILS stores records on patrons, the library catalog, an inventory of books and circulation status, fines, interlibrary loans, holds, and other information necessary to run the library. The ILS is a highly specialized ERP system designed specifically for library use.

SIP2 has a standard query form that allows a client of the ILS to request information. It was originally designed by 3M to facilitate the development of self-checkout stations that could directly write records of transactions into the ILS without staff intervention. A wireless LAN can use a “patron status request” through SIP2 to check the status of a patron before allowing Internet access.

# Test Objectives

## Check Traffic from User to Authenticator

### check authentication with open+cwp

### check authentication with ppsk(if has enough time)

### check authentication with https

## Traffic from Authenticator to internal RADIUS Server

### check authentication with PAP

### check the password security

### check the length and special characters of login account

## Traffic from RADIUS Server to SIP Server

### Check TCP socket stability

### Check the protocol of sip2 request message.(should according with the protocol format of 9300CN<username>CO<password>CP<organization>

## Traffic from SIP Server to RADIUS Server AP

### Check the protocol of sip2 response message. (check AP can parse the response message)

### Check the mapping rule

#### Check equal the field of rule

#### Check not equal the field of rule

#### Check substring the field of rule

#### Check starts with the field of rule

#### Check before date the field of rule

#### Check the muti-rule

#### Check sequence of the rule

#### Check no rule match

#### Check mapping the user-profile attribute but no vlan

#### Check mapping the vlan but no attribute

#### Check the session timeout of the rule

#### Check the valid and invalid CQ for response message

#### Check the valid and invalid BL for response message

#### Check the default sip2 rule base on response message

#### Check the customer sip2 rule base on response message

## Traffic from RADIUS Server to Authenticator

### Check the user-profile attribute mapping

### Check the default CWP UID attribute mapping(if the response message can not mapping a user-profile attribute)

### Check the other UID get by AD(if the response message can not mapping a user-profile attribute)(two authentication method).(AD haven’t user, sip2 server has user)

### Check the other UID get by CWP auth(if the response message can not mapping a user-profile attribute)

## Traffic from Authenticator to End User

### Check the default field for successful page

### Check the successful page if haven’t field

### Check the successful page if have custom field

#### Check the successful page if have all custom field

#### Check the compatibility between CWP auth with SIP2(it include session timeout, logoff, PC power off, page close directly)

#### Check the consistency between CWP auth with SIP2(it include login/logoff CWP page, more user login/logoff)

See CPU usage and memory

Use Radtest tools to check

#### Check the successfully page if the field hasn’t return

Management traffic with dynamic port

SIP2 分隔符

SIP2 message (有field ID, 没有field ID)

Successfully page return block status page or redirect page

*Patron Information Response*

The ACS must send this message in response to the Patron Information message.

64<patron status><language><transaction date><hold items count><overdue items count><charged

items count><fine items count><recall items count><unavailable holds count><institution

id><patron identifier><personal name><hold items limit><overdue items limit><charged items

limit><valid patron><valid patron password><currency type><fee amount><fee

limit><items><home address><e-mail address><home phone number><screen message><print

line>

Field ID Format

patron status 14-char, fixed-length required field

language 3-char, fixed-length required field

transaction date 18-char, fixed-length required field: YYYYMMDDZZZZHHMMSS

*2.00 hold items count 4-char, fixed-length required field*

*2.00 overdue items count 4-char, fixed-length required field*

*2.00 charged items count 4-char, fixed-length required field*

*2.00 fine items count 4-char, fixed-length required field*

*2.00 recall items count 4-char, fixed-length required field*

*2.00 unavailable holds count 4-char, fixed-length required field*

institution id AO variable-length required field

patron identifier AA variable-length required field

personal name AE variable-length required field

*2.00 hold items limit BZ 4-char, fixed-length optional field*

*2.00 overdue items limit CA 4-char, fixed-length optional field*

*2.00 charged items limit CB 4-char, fixed-length optional field*

*2.00 valid patron BL 1-char, optional field: Y or N*

*2.00 valid patron password CQ 1-char, optional field: Y or N*

*2.00 currency type BH 3-char fixed-length optional field*

*2.00 fee amount BV variable-length optional field. The amount of fees owed by this patron.*

*2.00 fee limit CC variable-length optional field. The fee limit amount.*

*item: zero or more instances of one of the following, based on “summary” field of the Patron Information message:*

*2.00 hold items AS variable-length optional field (this field should be sent for each hold item).*

*2.00 overdue items AT variable-length optional field (this field should be sent for each overdue item).*

*2.00 charged items AU variable-length optional field (this field should be sent for each charged item).*

*2.00 fine items AV variable-length optional field (this field should be sent for each fine item).*

*2.00 recall items BU variable-length optional field (this field should be sent for each recall item).*

3M™ Standard Interchange Protocol, Rev. 2.00 September 17, 1998

Document Rev. 2.10 Page 11 of 29

*2.00 unavailable hold items CD variable-length optional field (this field should be sent for each unavailable*

*hold item).*

*2.00 home address BD variable-length optional field*

*2.00 e-mail address BE variable-length optional field*

*2.00 home phone number BF variable-length optional field*

screen message AF variable-length optional field

**print line AG variable-length optional field**

## Test Tool

### Check the usability of test tool

## Logging

### Check the content of trap(same info as AD)

## Self healthing

### Make a complete SIP2 configure, then kill the radius process. The configure will be restore and has a normal function.

# Test Acceptance Criterion from Development

* Approved – Functional Specifications
* Approved – Unit Test Plans

# Product Pass Criterion

# Test Bed/Topo Design

AP as Radius server, acting as SIP client

SIP server

AP as authenticator

Patron’s laptop

SIP

RADIUS

Any sec

SIP

# TestCase

## Function Test Case

#### SIP2\_Function\_1

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_1 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check authentication with open+cwp | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. See the debug   \_debug radiusd excessive  \_debug radiusd sip-lib | | |
| Test result | Debug info:  2010-11-03 07:07:19 notice Station 0021:0028:1ed6 is authenticated to 0019:770c:0e10 thru SSID yfeng-sip2  2010-11-03 07:07:19 info set proxy route: 0021:0028:1ed6 -> 0019:770c:0e00 ifp wifi0.1 upid 0 flag 0x1c03 monitor(0/0) pkt/sec ok  2010-11-03 07:07:19 info receive event <STA join>: 0021:0028:1ed6 associate wifi0.1 upid 0 vlan 1 flag 0x00000001  2010-11-03 07:07:19 notice ah\_rt\_sta\_add: 0021:0028:1ed6(ip=10.155.30.89)  2010-11-03 07:07:19 info [Auth]STA(0021:0028:1ed6) login to SSID(wifi0.1) by user\_name=11111  2010-11-03 07:07:19 info Employee CWP user 11111 is registered on if wifi0.1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 Password=\*\*\*\*\*\*\*\* User prof ID=-1 Vlan\_ID=-1 session\_timeout = 0 idle\_timeout = -1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 joined in.  2010-11-03 07:07:19 notice Client Information: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0)  2010-11-03 07:07:19 notice A CWP user registered from interface wifi0.1: MAC=0021:0028:1ed6, IP=1.1.1.102  2010-11-03 07:07:19 debug Waking up in 6 seconds...  2010-11-03 07:07:19 debug Going to the next request  2010-11-03 07:07:19 notice authentication OK, username 11111, service (unknown)  2010-11-03 07:07:19 debug Finished request 13  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5 043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c000000363420205920202020202020202020203030313230313031313033202020203033303732363030303030303030303030303030303030303 03030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-03 07:07:19 debug Sending Access-Accept of id 46 to 10.155.30.37 port 32778  2010-11-03 07:07:19 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 info RADIUS: The RADIUS server accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 debug modcall: leaving group PAP (returns ok) for request 13  2010-11-03 07:07:19 debug modcall[authenticate]: module "pap" returns ok for request 13  2010-11-03 07:07:19 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:19 debug rlm\_libsip: user 11111 authentication is successful  2010-11-03 07:07:19 info RADIUS: user 11111 successfully queried the library SIP server  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-03 07:07:19 info LIBSIP:load library SIP policy failed, ignore mapping.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-03 07:07:19 info LIBSIP:query patron information successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101103 030726  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101103 030726000000000000000000000000AA11111|AEyun feng feng |BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-03 07:07:18 debug rlm\_libsip: authenticate for user 11111  2010-11-03 07:07:18 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall: entering group PAP for request 13  2010-11-03 07:07:18 debug Processing the authenticate section of radiusd.conf  2010-11-03 07:07:18 debug auth: type "PAP"  2010-11-03 07:07:18 debug rad\_check\_password: Found Auth-Type pap  2010-11-03 07:07:18 debug modcall: leaving group authorize (returns updated) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "pap" returns updated for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug rlm\_pap: Add auth-type PAP.  2010-11-03 07:07:18 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-03 07:07:18 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-03 07:07:18 debug modsingle[authorize]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "eap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-03 07:07:18 debug modsingle[authorize]: calling eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "mschap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "chap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modcall: entering group authorize for request 13  2010-11-03 07:07:18 debug Processing the authorize section of radiusd.conf  2010-11-03 07:07:18 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-03 07:07:18 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-03 07:07:18 debug --> NAS-IP-Address = 10.155.30.37  2010-11-03 07:07:18 debug --> NAS-Port = 0  2010-11-03 07:07:18 debug --> User-Password = "aerohive"  2010-11-03 07:07:18 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-03 07:07:18 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-03 07:07:18 debug --> User-Name = "11111"  2010-11-03 07:07:18 debug --> Framed-IP-Address = 10.155.30.89  2010-11-03 07:07:18 debug --> NAS-Port-Type = Wireless-802.11  2010-11-03 07:07:18 debug --> Service-Type = Login-User  2010-11-03 07:07:18 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-03 07:07:18 debug , id=46, length=124  2010-11-03 07:07:18 debug rad\_recv: Access-Request packet from host 10.155.30.37:32778  2010-11-03 07:07:18 info RADIUS: Try one by one  2010-11-03 07:07:18 info RADIUS status db doesn't exist.  2010-11-03 07:07:18 info [cgic]Received auth login request from 0021:0028:1ed6.  2010-11-03 07:07:04 notice ah\_rt\_sta\_modify: 0021:0028:1ed6(ip=10.155.30.89) | | |
| Comment |  | | |

#### SIP2\_Function\_2

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_2 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check authentication with ppsk | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup ppsk authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_3

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_3 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check authentication with https | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server ssl server-key 0  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Use https for page 3. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result | Debug:  AH-0c0e00#2010-11-03 07:28:35 debug rad\_recv: Access-Request packet from host 10.155.30.37:32779  2010-11-03 07:28:35 debug , id=47, length=124  2010-11-03 07:28:35 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-03 07:28:35 debug --> Service-Type = Login-User  2010-11-03 07:28:35 debug --> NAS-Port-Type = Wireless-802.11  2010-11-03 07:28:35 debug --> Framed-IP-Address = 10.155.30.89  2010-11-03 07:28:35 debug --> User-Name = "11111"  2010-11-03 07:28:35 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-03 07:28:35 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-03 07:28:35 debug --> User-Password = "aerohive"  2010-11-03 07:28:35 debug --> NAS-Port = 0  2010-11-03 07:28:35 debug --> NAS-IP-Address = 10.155.30.37  2010-11-03 07:28:35 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-03 07:28:35 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-03 07:28:35 debug Processing the authorize section of radiusd.conf  2010-11-03 07:28:35 debug modcall: entering group authorize for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: calling chap (rlm\_chap) for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 14  2010-11-03 07:28:35 debug modcall[authorize]: module "chap" returns noop for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 14  2010-11-03 07:28:35 debug modcall[authorize]: module "mschap" returns noop for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: calling eap (rlm\_eap) for request 14  2010-11-03 07:28:35 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-03 07:28:35 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 14  2010-11-03 07:28:35 debug modcall[authorize]: module "eap" returns noop for request 14  2010-11-03 07:28:35 debug modsingle[authorize]: calling pap (rlm\_pap) for request 14  2010-11-03 07:28:35 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-03 07:28:35 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-03 07:28:35 debug rlm\_pap: Add auth-type PAP.  2010-11-03 07:28:35 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 14  2010-11-03 07:28:35 debug modcall[authorize]: module "pap" returns updated for request 14  2010-11-03 07:28:35 debug modcall: leaving group authorize (returns updated) for request 14  2010-11-03 07:28:35 debug rad\_check\_password: Found Auth-Type pap  2010-11-03 07:28:35 debug auth: type "PAP"  2010-11-03 07:28:35 debug Processing the authenticate section of radiusd.conf  2010-11-03 07:28:35 debug modcall: entering group PAP for request 14  2010-11-03 07:28:35 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 14  2010-11-03 07:28:35 debug rlm\_libsip: authenticate for user 11111  2010-11-03 07:28:35 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-03 07:28:35 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-03 07:28:35 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-03 07:28:35 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-03 07:28:35 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101103 032843000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101103 032843  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-03 07:28:36 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-03 07:28:36 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-03 07:28:36 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-03 07:28:36 debug rlm\_libsip: user 11111 authentication is successful  2010-11-03 07:28:36 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 14  2010-11-03 07:28:36 debug modcall[authenticate]: module "pap" returns ok for request 14  2010-11-03 07:28:36 debug modcall: leaving group PAP (returns ok) for request 14  2010-11-03 07:28:36 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:28:36 debug Sending Access-Accept of id 47 to 10.155.30.37 port 32779  2010-11-03 07:28:36 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c00000036342020592020202020202020202020303031323031303131303320202020303332383433303030303030303030303030303030303030303030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-03 07:28:36 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-03 07:28:36 debug Finished request 14  2010-11-03 07:28:36 debug Going to the next request  2010-11-03 07:28:36 debug Waking up in 6 seconds...  2010-11-03 07:28:37 debug Waking up in 4 seconds...  2010-11-03 07:28:38 debug Waking up in 3 seconds...  2010-11-03 07:28:39 debug Waking up in 2 seconds...  2010-11-03 07:28:40 debug Waking up in 1 seconds...  AH-0c0e00#2010-11-03 07:28:41 debug Cleaning up request 14 ID 47 with timestamp 4cd10f23 | | |
| Comment |  | | |

#### SIP2\_Function\_4

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| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_4 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check authentication with PAP | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Use PAP for authentication 3. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Check the debug massage to determine whether use PAP | | |
| Test result | Debug:  Debug info:  2010-11-03 07:07:19 notice Station 0021:0028:1ed6 is authenticated to 0019:770c:0e10 thru SSID yfeng-sip2  2010-11-03 07:07:19 info set proxy route: 0021:0028:1ed6 -> 0019:770c:0e00 ifp wifi0.1 upid 0 flag 0x1c03 monitor(0/0) pkt/sec ok  2010-11-03 07:07:19 info receive event <STA join>: 0021:0028:1ed6 associate wifi0.1 upid 0 vlan 1 flag 0x00000001  2010-11-03 07:07:19 notice ah\_rt\_sta\_add: 0021:0028:1ed6(ip=10.155.30.89)  2010-11-03 07:07:19 info [Auth]STA(0021:0028:1ed6) login to SSID(wifi0.1) by user\_name=11111  2010-11-03 07:07:19 info Employee CWP user 11111 is registered on if wifi0.1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 Password=\*\*\*\*\*\*\*\* User prof ID=-1 Vlan\_ID=-1 session\_timeout = 0 idle\_timeout = -1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 joined in.  2010-11-03 07:07:19 notice Client Information: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0)  2010-11-03 07:07:19 notice A CWP user registered from interface wifi0.1: MAC=0021:0028:1ed6, IP=1.1.1.102  2010-11-03 07:07:19 debug Waking up in 6 seconds...  2010-11-03 07:07:19 debug Going to the next request  2010-11-03 07:07:19 notice authentication OK, username 11111, service (unknown)  2010-11-03 07:07:19 debug Finished request 13  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5 043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c000000363420205920202020202020202020203030313230313031313033202020203033303732363030303030303030303030303030303030303 03030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-03 07:07:19 debug Sending Access-Accept of id 46 to 10.155.30.37 port 32778  2010-11-03 07:07:19 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 info RADIUS: The RADIUS server accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 debug modcall: leaving group PAP (returns ok) for request 13  2010-11-03 07:07:19 debug modcall[authenticate]: module "pap" returns ok for request 13  2010-11-03 07:07:19 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:19 debug rlm\_libsip: user 11111 authentication is successful  2010-11-03 07:07:19 info RADIUS: user 11111 successfully queried the library SIP server  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-03 07:07:19 info LIBSIP:load library SIP policy failed, ignore mapping.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-03 07:07:19 info LIBSIP:query patron information successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101103 030726  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101103 030726000000000000000000000000AA11111|AEyun feng feng |BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-03 07:07:18 debug rlm\_libsip: authenticate for user 11111  2010-11-03 07:07:18 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall: entering group PAP for request 13  2010-11-03 07:07:18 debug Processing the authenticate section of radiusd.conf  2010-11-03 07:07:18 debug auth: type "PAP"  2010-11-03 07:07:18 debug rad\_check\_password: Found Auth-Type pap  2010-11-03 07:07:18 debug modcall: leaving group authorize (returns updated) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "pap" returns updated for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug rlm\_pap: Add auth-type PAP.  2010-11-03 07:07:18 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-03 07:07:18 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-03 07:07:18 debug modsingle[authorize]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "eap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-03 07:07:18 debug modsingle[authorize]: calling eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "mschap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "chap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modcall: entering group authorize for request 13  2010-11-03 07:07:18 debug Processing the authorize section of radiusd.conf  2010-11-03 07:07:18 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-03 07:07:18 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-03 07:07:18 debug --> NAS-IP-Address = 10.155.30.37  2010-11-03 07:07:18 debug --> NAS-Port = 0  2010-11-03 07:07:18 debug --> User-Password = "aerohive"  2010-11-03 07:07:18 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-03 07:07:18 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-03 07:07:18 debug --> User-Name = "11111"  2010-11-03 07:07:18 debug --> Framed-IP-Address = 10.155.30.89  2010-11-03 07:07:18 debug --> NAS-Port-Type = Wireless-802.11  2010-11-03 07:07:18 debug --> Service-Type = Login-User  2010-11-03 07:07:18 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-03 07:07:18 debug , id=46, length=124  2010-11-03 07:07:18 debug rad\_recv: Access-Request packet from host 10.155.30.37:32778  2010-11-03 07:07:18 info RADIUS: Try one by one  2010-11-03 07:07:18 info RADIUS status db doesn't exist.  2010-11-03 07:07:18 info [cgic]Received auth login request from 0021:0028:1ed6.  2010-11-03 07:07:04 notice ah\_rt\_sta\_modify: 0021:0028:1ed6(ip=10.155.30.89) | | |
| Comment |  | | |

#### SIP2\_Function\_5

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| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_5 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the password security | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Debug message to determine whether the password has been displayed or capture the packet to determine whether the password has been displayed | | |
| Test result | Debug:  Debug info:  2010-11-03 07:07:19 notice Station 0021:0028:1ed6 is authenticated to 0019:770c:0e10 thru SSID yfeng-sip2  2010-11-03 07:07:19 info set proxy route: 0021:0028:1ed6 -> 0019:770c:0e00 ifp wifi0.1 upid 0 flag 0x1c03 monitor(0/0) pkt/sec ok  2010-11-03 07:07:19 info receive event <STA join>: 0021:0028:1ed6 associate wifi0.1 upid 0 vlan 1 flag 0x00000001  2010-11-03 07:07:19 notice ah\_rt\_sta\_add: 0021:0028:1ed6(ip=10.155.30.89)  2010-11-03 07:07:19 info [Auth]STA(0021:0028:1ed6) login to SSID(wifi0.1) by user\_name=11111  2010-11-03 07:07:19 info Employee CWP user 11111 is registered on if wifi0.1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 Password=\*\*\*\*\*\*\*\* User prof ID=-1 Vlan\_ID=-1 session\_timeout = 0 idle\_timeout = -1  2010-11-03 07:07:19 notice User Type=Employee User Name=11111 joined in.  2010-11-03 07:07:19 notice Client Information: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0)  2010-11-03 07:07:19 notice A CWP user registered from interface wifi0.1: MAC=0021:0028:1ed6, IP=1.1.1.102  2010-11-03 07:07:19 debug Waking up in 6 seconds...  2010-11-03 07:07:19 debug Going to the next request  2010-11-03 07:07:19 notice authentication OK, username 11111, service (unknown)  2010-11-03 07:07:19 debug Finished request 13  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5 043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-03 07:07:19 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c000000363420205920202020202020202020203030313230313031313033202020203033303732363030303030303030303030303030303030303 03030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-03 07:07:19 debug Sending Access-Accept of id 46 to 10.155.30.37 port 32778  2010-11-03 07:07:19 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 info RADIUS: The RADIUS server accepted user '11111' through the NAS at 10.155.30.37.  2010-11-03 07:07:19 debug modcall: leaving group PAP (returns ok) for request 13  2010-11-03 07:07:19 debug modcall[authenticate]: module "pap" returns ok for request 13  2010-11-03 07:07:19 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:19 debug rlm\_libsip: user 11111 authentication is successful  2010-11-03 07:07:19 info RADIUS: user 11111 successfully queried the library SIP server  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-03 07:07:19 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-03 07:07:19 info LIBSIP:load library SIP policy failed, ignore mapping.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-03 07:07:19 info LIBSIP:query patron information successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101103 030726  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101103 030726000000000000000000000000AA11111|AEyun feng feng |BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-03 07:07:19 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-03 07:07:18 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-03 07:07:18 debug rlm\_libsip: authenticate for user 11111  2010-11-03 07:07:18 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall: entering group PAP for request 13  2010-11-03 07:07:18 debug Processing the authenticate section of radiusd.conf  2010-11-03 07:07:18 debug auth: type "PAP"  2010-11-03 07:07:18 debug rad\_check\_password: Found Auth-Type pap  2010-11-03 07:07:18 debug modcall: leaving group authorize (returns updated) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "pap" returns updated for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug rlm\_pap: Add auth-type PAP.  2010-11-03 07:07:18 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-03 07:07:18 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-03 07:07:18 debug modsingle[authorize]: calling pap (rlm\_pap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "eap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-03 07:07:18 debug modsingle[authorize]: calling eap (rlm\_eap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "mschap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 13  2010-11-03 07:07:18 debug modcall[authorize]: module "chap" returns noop for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modsingle[authorize]: calling chap (rlm\_chap) for request 13  2010-11-03 07:07:18 debug modcall: entering group authorize for request 13  2010-11-03 07:07:18 debug Processing the authorize section of radiusd.conf  2010-11-03 07:07:18 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-03 07:07:18 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-03 07:07:18 debug --> NAS-IP-Address = 10.155.30.37  2010-11-03 07:07:18 debug --> NAS-Port = 0  2010-11-03 07:07:18 debug --> User-Password = "aerohive"  2010-11-03 07:07:18 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-03 07:07:18 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-03 07:07:18 debug --> User-Name = "11111"  2010-11-03 07:07:18 debug --> Framed-IP-Address = 10.155.30.89  2010-11-03 07:07:18 debug --> NAS-Port-Type = Wireless-802.11  2010-11-03 07:07:18 debug --> Service-Type = Login-User  2010-11-03 07:07:18 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-03 07:07:18 debug , id=46, length=124  2010-11-03 07:07:18 debug rad\_recv: Access-Request packet from host 10.155.30.37:32778  2010-11-03 07:07:18 info RADIUS: Try one by one  2010-11-03 07:07:18 info RADIUS status db doesn't exist.  2010-11-03 07:07:18 info [cgic]Received auth login request from 0021:0028:1ed6.  2010-11-03 07:07:04 notice ah\_rt\_sta\_modify: 0021:0028:1ed6(ip=10.155.30.89) | | |
| Comment |  | | |

#### SIP2\_Function\_6

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_6 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check TCP socket stability | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 3. AP reboot 4. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. If AP reboot, the session will be restored | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_7

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_7 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check TCP socket stability | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 3. Run about 24 hours | | |
| Expect result | 1. Can login successfully 2. Check the TCP socket can not be closed | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_8

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_8 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the protocol of sip2 request message | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server ssl server-key 0  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Debug the message and capture the packet to determine whether the request message has CN/CO/CP field | | |
| Test result | Debug:  AH-0c0e00#2010-11-11 07:20:40 debug rad\_recv: Access-Request packet from host 10.155.30.37:32780  2010-11-11 07:20:40 debug , id=48, length=124  2010-11-11 07:20:40 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-11 07:20:40 debug --> Service-Type = Login-User  2010-11-11 07:20:40 debug --> NAS-Port-Type = Wireless-802.11  2010-11-11 07:20:40 debug --> Framed-IP-Address = 10.155.30.89  2010-11-11 07:20:40 debug --> User-Name = "11111"  2010-11-11 07:20:40 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-11 07:20:40 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-11 07:20:40 debug --> User-Password = "aerohive"  2010-11-11 07:20:40 debug --> NAS-Port = 0  2010-11-11 07:20:40 debug --> NAS-IP-Address = 10.155.30.37  2010-11-11 07:20:40 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-11 07:20:40 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-11 07:20:40 debug Processing the authorize section of radiusd.conf  2010-11-11 07:20:40 debug modcall: entering group authorize for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling chap (rlm\_chap) for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "chap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "mschap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling eap (rlm\_eap) for request 15  2010-11-11 07:20:40 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-11 07:20:40 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "eap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-11 07:20:40 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-11 07:20:40 debug rlm\_pap: Add auth-type PAP.  2010-11-11 07:20:40 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "pap" returns updated for request 15  2010-11-11 07:20:40 debug modcall: leaving group authorize (returns updated) for request 15  2010-11-11 07:20:40 debug rad\_check\_password: Found Auth-Type pap  2010-11-11 07:20:40 debug auth: type "PAP"  2010-11-11 07:20:40 debug Processing the authenticate section of radiusd.conf  2010-11-11 07:20:40 debug modcall: entering group PAP for request 15  2010-11-11 07:20:40 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug rlm\_libsip: authenticate for user 11111  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101111 022050000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101111 022050  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-11 07:20:41 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-11 07:20:41 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-11 07:20:41 debug rlm\_libsip: user 11111 authentication is successful  2010-11-11 07:20:41 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 15  2010-11-11 07:20:41 debug modcall[authenticate]: module "pap" returns ok for request 15  2010-11-11 07:20:41 debug modcall: leaving group PAP (returns ok) for request 15  2010-11-11 07:20:41 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-11 07:20:41 debug Sending Access-Accept of id 48 to 10.155.30.37 port 32780  2010-11-11 07:20:41 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c00000036342020592020202020202020202020303031323031303131313120202020303232303530303030303030303030303030303030303030303030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-11 07:20:41 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-11 07:20:41 debug Finished request 15 | | |
| Comment |  | | |

#### SIP2\_Function\_9

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| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_9 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the protocol of sip2 response message | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server ssl server-key 0  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng default user-group yfeng  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Debug the message to determine AP can parse all of the field | | |
| Test result | Debug:  AH-0c0e00#2010-11-11 07:20:40 debug rad\_recv: Access-Request packet from host 10.155.30.37:32780  2010-11-11 07:20:40 debug , id=48, length=124  2010-11-11 07:20:40 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-11 07:20:40 debug --> Service-Type = Login-User  2010-11-11 07:20:40 debug --> NAS-Port-Type = Wireless-802.11  2010-11-11 07:20:40 debug --> Framed-IP-Address = 10.155.30.89  2010-11-11 07:20:40 debug --> User-Name = "11111"  2010-11-11 07:20:40 debug --> Calling-Station-Id = "00-21-00-28-1E-D6"  2010-11-11 07:20:40 debug --> Called-Station-Id = "00-19-77-0C-0E-10:yfeng-sip2"  2010-11-11 07:20:40 debug --> User-Password = "aerohive"  2010-11-11 07:20:40 debug --> NAS-Port = 0  2010-11-11 07:20:40 debug --> NAS-IP-Address = 10.155.30.37  2010-11-11 07:20:40 debug RADIUS: got sta mac 0021:0028:1ed6 from attr Calling-Station-Id  2010-11-11 07:20:40 debug RADIUS: got bssid 0019:770c:0e10 from attr Called-Station-Id  2010-11-11 07:20:40 debug Processing the authorize section of radiusd.conf  2010-11-11 07:20:40 debug modcall: entering group authorize for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling chap (rlm\_chap) for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "chap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "mschap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling eap (rlm\_eap) for request 15  2010-11-11 07:20:40 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-11 07:20:40 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "eap" returns noop for request 15  2010-11-11 07:20:40 debug modsingle[authorize]: calling pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-11 07:20:40 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-11 07:20:40 debug rlm\_pap: Add auth-type PAP.  2010-11-11 07:20:40 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug modcall[authorize]: module "pap" returns updated for request 15  2010-11-11 07:20:40 debug modcall: leaving group authorize (returns updated) for request 15  2010-11-11 07:20:40 debug rad\_check\_password: Found Auth-Type pap  2010-11-11 07:20:40 debug auth: type "PAP"  2010-11-11 07:20:40 debug Processing the authenticate section of radiusd.conf  2010-11-11 07:20:40 debug modcall: entering group PAP for request 15  2010-11-11 07:20:40 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 15  2010-11-11 07:20:40 debug rlm\_libsip: authenticate for user 11111  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-11 07:20:40 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101111 022050000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101111 022050  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-11 07:20:41 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1178]: LIBSIP:radius does not bind any library SIP policy.  2010-11-11 07:20:41 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-11 07:20:41 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-11 07:20:41 debug rlm\_libsip: user 11111 authentication is successful  2010-11-11 07:20:41 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 15  2010-11-11 07:20:41 debug modcall[authenticate]: module "pap" returns ok for request 15  2010-11-11 07:20:41 debug modcall: leaving group PAP (returns ok) for request 15  2010-11-11 07:20:41 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-11 07:20:41 debug Sending Access-Accept of id 48 to 10.155.30.37 port 32780  2010-11-11 07:20:41 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c00000036342020592020202020202020202020303031323031303131313120202020303232303530303030303030303030303030303030303030303030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-11 07:20:41 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-11 07:20:41 debug Finished request 15 | | |
| Comment |  | | |

#### SIP2\_Function\_10

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| Case ID | SIP2\_Function\_10 | | |
| Priority | Accept | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the equal the field id of rule | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng id 1 field AE matches 11111 user-group yfeng  library-sip-policy yfeng id 2 field AA matches 11111 user-group yfeng  library-sip-policy yfeng1 default user-group yfeng1  aaa radius-server local library-sip-policy yfeng1  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  aaa radius-server local user-group yfeng  aaa radius-server local user-group yfeng1  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009  user-profile yfeng1 qos-policy def-user-qos vlan-id 1 attribute 3000 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 which configure CN field | | |
| Expect result | 1. Can login successfully 2. Can match the CN field and assign corresponding attribute | | |
| Test result | Debug:  AH-0c0e00#  AH-0c0e00#2010-11-16 06:39:48 debug rad\_recv: Access-Request packet from host 10.155.30.37:32773  2010-11-16 06:39:48 debug , id=164, length=124  2010-11-16 06:39:48 debug auto shared-secret 5F62\*, NAS 10.155.30.37, RADIUS srv 10.155.30.37  2010-11-16 06:39:48 debug RADIUS: got sta mac 001d:e02a:be91 from attr Calling-Station-Id  2010-11-16 06:39:48 debug RADIUS: got bssid 0019:770c:0e20 from attr Called-Station-Id  2010-11-16 06:39:48 debug Processing the authorize section of radiusd.conf  2010-11-16 06:39:48 debug modcall: entering group authorize for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: calling chap (rlm\_chap) for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: returned from chap (rlm\_chap) for request 2  2010-11-16 06:39:48 debug modcall[authorize]: module "chap" returns noop for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: calling mschap (rlm\_mschap) for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: returned from mschap (rlm\_mschap) for request 2  2010-11-16 06:39:48 debug modcall[authorize]: module "mschap" returns noop for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: calling eap (rlm\_eap) for request 2  2010-11-16 06:39:48 debug rlm\_eap: No EAP-Message, not doing EAP  2010-11-16 06:39:48 debug modsingle[authorize]: returned from eap (rlm\_eap) for request 2  2010-11-16 06:39:48 debug modcall[authorize]: module "eap" returns noop for request 2  2010-11-16 06:39:48 debug modsingle[authorize]: calling pap (rlm\_pap) for request 2  2010-11-16 06:39:48 debug rlm\_pap: WARNING! No "known good" password found for the user. Authentication may fail because of this.  2010-11-16 06:39:48 debug [radius\_debug, ah\_radius\_domain.c, 512]: user '11111' is not a domain user  2010-11-16 06:39:48 debug rlm\_pap: Add auth-type PAP.  2010-11-16 06:39:48 debug modsingle[authorize]: returned from pap (rlm\_pap) for request 2  2010-11-16 06:39:48 debug modcall[authorize]: module "pap" returns updated for request 2  2010-11-16 06:39:48 debug modcall: leaving group authorize (returns updated) for request 2  2010-11-16 06:39:48 debug rad\_check\_password: Found Auth-Type pap  2010-11-16 06:39:48 debug auth: type "PAP"  2010-11-16 06:39:48 debug Processing the authenticate section of radiusd.conf  2010-11-16 06:39:48 debug modcall: entering group PAP for request 2  2010-11-16 06:39:48 debug modsingle[authenticate]: calling pap (rlm\_pap) for request 2  2010-11-16 06:39:48 debug rlm\_libsip: authenticate for user 11111  2010-11-16 06:39:49 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-16 06:39:49 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-16 06:39:49 debug rlm\_libsip: got user-group yfeng1  2010-11-16 06:39:49 debug Add re-authenticate time 1800  2010-11-16 06:39:49 debug rlm\_libsip: user 11111 authentication is successful  2010-11-16 06:39:49 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 2  2010-11-16 06:39:49 debug modcall[authenticate]: module "pap" returns ok for request 2  2010-11-16 06:39:49 debug modcall: leaving group PAP (returns ok) for request 2  2010-11-16 06:39:49 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-16 06:39:49 debug Sending Access-Accept of id 164 to 10.155.30.37 port 32773  2010-11-16 06:39:49 debug Finished request 2  2010-11-16 06:39:49 debug Going to the next request  2010-11-16 06:39:49 debug Waking up in 6 seconds...  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 670]: Roaming entry (SPA=001d:e02a:be91 AA=0019:770c:0e20 IP=10.155.30.37 SSID=yfeng-sip2 PMK=0000 UID=2000 VID=0 auth-timeout=43200) is got from cache  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 162]: Acct\_multi\_session\_id 001de02abe910019770c0e204ce2273574b0dc51 for sta 001d:e02a:be91 is generated  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 688]: registering CWP sta 001d:e02a:be91 for if 15  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 670]: Roaming entry (SPA=001d:e02a:be91 AA=0019:770c:0e20 IP=10.155.30.37 SSID=yfeng-sip2 PMK=0000 UID=2000 VID=0 auth-timeout=43200) is got from cache  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 670]: Roaming entry (SPA=001d:e02a:be91 AA=0019:770c:0e20 IP=10.155.30.37 SSID=yfeng-sip2 PMK=0000 UID=2000 VID=0 auth-timeout=43200) is got from cache  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 127]: set sta (001d:e02a:be91) info to FE: IP 10.155.30.100, hostname win7-PC, lease time 604774  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 491]: Station is authenticated: SPA=001d:e02a:be91, AA=0019:770c:0e20  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 494]: if=wifi1.1, if\_idx=15, old-AP=0019:770c:0e20, age=0, hop=0  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 497]: user-profile-group-ID=0, VLAN-ID=1/0, session-timeout=1800, ssid=yfeng-sip2, mgt IP=10.155.30.37  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 521]: PMK=0000(len=32).  2010-11-16 06:39:49 debug [auth\_info, ah\_wpa.c, 528]: PMKID=0100(len=16).  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 903]: to add roaming entry: flag=local SPA=001d:e02a:be91 AA=0019:770c:0e20 IP=10.155.30.37 UID=0 VID=0 auth\_timeout=1800 cache\_timeout=-1 age=0 hop=0 ssid=yfeng-sip2 PMK=0000 from=0019:770c:0e20  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 925]: Roaming entry (SPA=001d:e02a:be91, AA=0019:770c:0e20) found before adding  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 1047]: roaming entry (SPA=001d:e02a:be91, AA=0019:770c:0e20, ssid=yfeng-sip2, cache\_timeout=3600, PMK=0000, UID=0, VID=0, auth-timeout=1800, hop=0) is added/updated  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_cache.c, 1730]: event (refresh: SPA=001d:e02a:be91 PMK=0000 UID=0 VID=0) is sent to AMRP  2010-11-16 06:39:49 debug [auth\_info, ah\_auth\_l3rm.c, 166]: sent auth rm cache update pkt: type=cache info update SPA=001d:e02a:be91 PMK=0000 UID=0 VID=0  2010-11-16 06:39:50 debug Waking up in 4 seconds...  2010-11-16 06:39:51 debug Waking up in 3 seconds... | | |
| Comment |  | | |

#### SIP2\_Function\_11

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| Case ID | SIP2\_Function\_11 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check not equal the field id of rule | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 which configure CN field | | |
| Expect result | 1. Can login successfully 2. Debug message to can not match the field. | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_12

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| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_12 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check contain the field id of rule | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng id 1 field AE matches 11111 user-group yfeng  library-sip-policy yfeng1 id 1 field PB contains 1978 user-group yfeng1  library-sip-policy yfeng1 default user-group yfeng  aaa radius-server local library-sip-policy yfeng1  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  aaa radius-server local user-group yfeng  aaa radius-server local user-group yfeng1  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009  user-profile yfeng1 qos-policy def-user-qos vlan-id 1 attribute 3000 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can match successfully | | |
| Test result | Debug:  2010-11-16 07:21:06 debug rlm\_libsip: authenticate for user 11111  2010-11-16 07:21:06 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 07:21:06 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 07:21:06 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 07:21:06 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-16 07:21:06 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 022112000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 022112  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1440]: LIBSIP:select user group based on library SIP policy.  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1299]: rule 1: "PB" "contains" "1978"  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1310]: respond field PB: 1978-10-10  2010-11-16 07:21:07 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1366]: match.  2010-11-16 07:21:07 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 1 len 120  2010-11-16 07:21:07 debug rlm\_libsip: added Aerohive-Libsip-Patron-Info part 2 len 101  2010-11-16 07:21:07 debug rlm\_libsip: got user-group yfeng1  2010-11-16 07:21:07 debug Add user-profile attribute 2000, tag 0  2010-11-16 07:21:07 debug Add re-authenticate time 1800  2010-11-16 07:21:07 debug rlm\_libsip: user 11111 authentication is successful  2010-11-16 07:21:07 debug modsingle[authenticate]: returned from pap (rlm\_pap) for request 4  2010-11-16 07:21:07 debug modcall[authenticate]: module "pap" returns ok for request 4  2010-11-16 07:21:07 debug modcall: leaving group PAP (returns ok) for request 4  2010-11-16 07:21:07 debug RADIUS: accepted user '11111' through the NAS at 10.155.30.37.  2010-11-16 07:21:07 debug Sending Access-Accept of id 166 to 10.155.30.37 port 32775  2010-11-16 07:21:07 debug --> Aerohive-Libsip-Patron-Info = 0x400000dd7c00000036342020592020202020202020202020303031323031303131313620202020303232313132303030303030303030303030303030303030303030303030414131313131317c414579756e2066656e672066656e677c42485553447c4256302e30307c42446166617364666164736620206173646661736420  2010-11-16 07:21:07 debug --> Aerohive-Libsip-Patron-Info = 0x20617364205553412038393839307c42457966656e67406165726f686976652e636f6d7c41514252317c424c597c4351597c5042313937382d31302d31307c5043506174726f6e737c504946696c74657265647c41464f4b7c414f676170696e65737c0d0a  2010-11-16 07:21:07 debug --> Tunnel-Type:0 = GRE  2010-11-16 07:21:07 debug --> Tunnel-Medium-Type:0 = IPv4  2010-11-16 07:21:07 debug --> Tunnel-Private-Group-Id:0 = "2000"  2010-11-16 07:21:07 debug --> Session-Timeout = 1800  2010-11-16 07:21:07 debug --> Termination-Action = RADIUS-Request  2010-11-16 07:21:07 debug Finished request 4  2010-11-16 07:21:07 debug Going to the next request  2010-11-16 07:21:07 debug Waking up in 6 seconds... | | |
| Comment |  | | |

#### SIP2\_Function\_13

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_13 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check starts with the field if of rule | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can match successfully though see the debug message | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_14

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_14 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check defore date the field id of rule | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng1 id 1 field PB occurs-before 1978-10-29 user-group yfeng1  library-sip-policy yfeng1 default user-group yfeng  aaa radius-server local library-sip-policy yfeng1  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  aaa radius-server local user-group yfeng  aaa radius-server local user-group yfeng1  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009  user-profile yfeng1 qos-policy def-user-qos vlan-id 1 attribute 3000 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can match successfully if 18 years old or not | | |
| Test result | Debug:  AH-0c0e00#exec aaa library-sip-test primary username 11111 password \*\*\*\*\*\*\*\*  2010-11-16 11:27:48 debug [radius\_debug, ah\_radius\_event.c, 60]: receive radiusd event: Perform library SIP test  2010-11-16 11:27:48 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 11:27:48 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 11:27:48 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 11:27:48 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-16 11:27:48 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  AH-0c0e00#2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 062754000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 062754  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1440]: LIBSIP:select user group based on library SIP policy.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1299]: rule 1: "PB" "occurs-before" "1978-10-29"  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1310]: respond field PB: 1978-10-10  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1255]: LIBSIP:compare date: 1978-10-10 1978-10-29  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1366]: match.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 062754000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 062754  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  Exec-Program output:  2010-11-16 11:27:49 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  query patron "11111" information successfully.  hold items 0000  overdue items 0000  charged items 0000  fine items 0000  recall items 0000  unavailable items 0000  institution id(AO) gapines  screen message(AF) OK  customer defined(PI) Filtered  customer defined(PC) Patrons  customer defined(PB) 1978-10-10  valid patron password(CQ) Y  valid patron(BL) Y  permanent location(AQ) BR1  e-mail address(BE) yfeng@aerohive.com  home address(BD) afasdfadsf asdfasd asd USA 89890  fee amount(BV) 0.00  currency type(BH) USD  personal name(AE) yun feng feng  patron identifier(AA) 11111  Mapping User Group:"yfeng1"  Attribute: 2000  Vlan: 0  Timeout(s): 1800 | | |
| Comment |  | | |

#### SIP2\_Function\_15

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_15 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the muti-rule | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Different user can login with different account, match different rule and get different attribute | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_16

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_16 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check sequence of the rule | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can not match first rule, but can match second rule | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_17

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_17 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check no rule match | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can not match any rule and AP will give a default attribute | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_18

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_18 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check mapping the user-profile attribute but no vlan | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can match the field and get empty attribute and correct vlan | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_19

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_19 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the session timeout of the rule | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can match the field and get correct the session timeout | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_20

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_20 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the valid and invalid BL for response message | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 with invalid BL | | |
| Expect result | 1. If get valid BL, will return successfully value, if get invalid BL, will reject | | |
| Test result | Debug:  AH-0c0e00#exec aaa library-sip-test primary username 111111 password \*\*\*\*\*\*\*\*  AH-0c0e00#2010-11-16 11:39:52 debug [radius\_debug, ah\_radius\_event.c, 60]: receive radiusd event: Perform library SIP test  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=66.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 89.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64YYYY 00120101116 063958000000000000000000000000AE|AA111111|BLN|AOgapines|^M  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status:YYYY  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 063958  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE:  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 111111  2010-11-16 11:39:52 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: N  Exec-Program output:  query patron "111111" information fail.  Reason:The patron does not have an account in the library SIP server database.  Debug2:  AH-0c0e00#exec aaa library-sip-test primary username 11111 password \*\*\*\*\*\*\*\*  2010-11-16 11:41:11 debug [radius\_debug, ah\_radius\_event.c, 60]: receive radiusd event: Perform library SIP test  2010-11-16 11:41:11 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 11:41:11 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 11:41:11 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 11:41:11 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-16 11:41:11 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  AH-0c0e00#2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 064117000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 064117  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1440]: LIBSIP:select user group based on library SIP policy.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1299]: rule 1: "PB" "occurs-after" "1978-01-01"  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1310]: respond field PB: 1978-10-10  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1255]: LIBSIP:compare date: 1978-10-10 1978-01-01  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1366]: match.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 064117000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 064117  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:41:12 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:41:12 debug  Exec-Program output:  [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  query patron "11111" information successfully.  hold items 0000  overdue items 0000  charged items 0000  fine items 0000  recall items 0000  unavailable items 0000  institution id(AO) gapines  screen message(AF) OK  customer defined(PI) Filtered  customer defined(PC) Patrons  customer defined(PB) 1978-10-10  valid patron password(CQ) Y  valid patron(BL) Y  permanent location(AQ) BR1  e-mail address(BE) yfeng@aerohive.com  home address(BD) afasdfadsf asdfasd asd USA 89890  fee amount(BV) 0.00  currency type(BH) USD  personal name(AE) yun feng feng  patron identifier(AA) 11111  Mapping User Group:"yfeng1"  Attribute: 2000  Vlan: 0  Timeout(s): 1800 | | |
| Comment |  | | |

#### SIP2\_Function\_21

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_21 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the default sip2 rule base on response message | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng1 default user-group yfeng  aaa radius-server local library-sip-policy yfeng1  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  aaa radius-server local user-group yfeng  aaa radius-server local user-group yfeng1  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009  user-profile yfeng1 qos-policy def-user-qos vlan-id 1 attribute 3000 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Check the default rule has normal function | | |
| Test result | Debug:  AH-0c0e00#exec aaa library-sip-test primary username 11111 password \*\*\*\*\*\*\*\*  2010-11-16 11:42:15 debug [radius\_debug, ah\_radius\_event.c, 60]: receive radiusd event: Perform library SIP test  2010-11-16 11:42:15 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 11:42:15 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 11:42:15 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 11:42:15 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-16 11:42:15 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  AH-0c0e00#2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 064221000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 064221  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1440]: LIBSIP:select user group based on library SIP policy.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 064221000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 064221  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 11:42:16 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  Exec-Program output:  query patron "11111" information successfully.  hold items 0000  overdue items 0000  charged items 0000  fine items 0000  recall items 0000  unavailable items 0000  institution id(AO) gapines  screen message(AF) OK  customer defined(PI) Filtered  customer defined(PC) Patrons  customer defined(PB) 1978-10-10  valid patron password(CQ) Y  valid patron(BL) Y  permanent location(AQ) BR1  e-mail address(BE) yfeng@aerohive.com  home address(BD) afasdfadsf asdfasd asd USA 89890  fee amount(BV) 0.00  currency type(BH) USD  personal name(AE) yun feng feng  patron identifier(AA) 11111  Mapping User Group:"yfeng"  Attribute: 3000  Vlan: 0  Timeout(s): 1800 | | |
| Comment |  | | |

#### SIP2\_Function\_22

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_22 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the custom SIP2 rule base on response message | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Check AP can match the custom field id | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_23

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_23 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the user-profile attribute mapping | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. The field can be matched and get attribute | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_24

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_24 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the default cwp uid attribute mapping | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can not match and AP will give a default attribute | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_25

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_25 | | |
| Priority | Low | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the other UID get by AP | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_26

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_26 | | |
| Priority | Low | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the other UID get by cwp auth | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_27

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_27 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the default field for successful page | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 via cwp auth | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_28

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_28 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the successful oage if haven’t field | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_29

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_29 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the successful page if have custom field | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_30

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_30 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the successful page if have all custom field | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_31

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_31 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the compatibility between cwp auth with sip2 | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_32

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_32 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the consistency between cwp auth with sip2 | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_33

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_33 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the usability of test tool | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_34

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_34 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the trap with SNMP | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_35

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_35 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the trap with capwap | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_36

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_36 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the content of trap | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_37

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_37 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the usability of test tool Make a complete SIP2 configure, then kill the sip2 process. The configure will be restore and has a normal function. | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

### Add case for bug

#### SIP2\_Function\_38

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_38 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check the SIP2 function work if restart local radius server | | |
| Pre-condition |  | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 3. Disable local radius server 4. Enable local radius server 5. Login with sip2 | | |
| Expect result | 1. Can login successfully 2. Can login successfully | | |
| Test result |  | | |
| Comment |  | | |

#### SIP2\_Function\_39

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SIP2\_Function\_39 | | |
| Priority | High | Automation Flag | No |
| Topology to use | Topology1 | | |
| Description | Check rule for occurs-after | | |
| Pre-condition | security-object yfeng-sip2  security-object yfeng-sip2 security aaa radius-server primary 10.155.30.37  security-object yfeng-sip2 security additional-auth-method captive-web-portal timer-display  security-object yfeng-sip2 web-server  ssid yfeng-sip2  ssid yfeng-sip2 security-object yfeng-sip2  hive yfeng  interface wifi0 radio channel 3  interface wifi0 radio power 20  interface wifi1 mode access  interface mgt0 hive yfeng  interface wifi0 ssid yfeng-sip2  interface wifi1 ssid yfeng-sip2  console timeout 0  library-sip-policy yfeng1 id 1 field PB occurs-after 1978-01-01 user-group yfeng1  library-sip-policy yfeng1 default user-group yfeng  aaa radius-server local library-sip-policy yfeng1  aaa radius-server local db-type library-sip-server primary server 10.155.30.92  aaa radius-server local db-type library-sip-server primary login-user scclient password \*\*\*  aaa radius-server local db-type library-sip-server primary institution-id gapines  aaa radius-server local enable  aaa radius-server local user-group yfeng  aaa radius-server local user-group yfeng1  user-profile yfeng qos-policy def-user-qos vlan-id 1 attribute 4009  user-profile yfeng1 qos-policy def-user-qos vlan-id 1 attribute 3000 | | |
| Test procedure | 1. Setup open+cwp authentication 2. Login with sip2 | | |
| Expect result | 1. Can match the rule if occurs date after the defined date | | |
| Test result | Debug:  AH-0c0e00#exec aaa library-sip-test primary username 11111 password \*\*\*\*\*\*\*\*  2010-11-16 11:29:53 debug [radius\_debug, ah\_radius\_event.c, 60]: receive radiusd event: Perform library SIP test  2010-11-16 11:29:53 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1519]: LIBSIP:patron query start.  2010-11-16 11:29:53 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 931]: LIBSIP:server already login!  2010-11-16 11:29:53 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 284]: LIBSIP:build patron request(type=63).  2010-11-16 11:29:53 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 394]: LIBSIP:Request type=63, len=65.  2010-11-16 11:29:53 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 823]: LIBSIP:send request successfully.  AH-0c0e00#2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 837]: LIBSIP:recv msg....  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 871]: LIBSIP: recv 1 message.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 741]: LIBSIP:select socket timeout.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 885]: LIBSIP:no more msg need to recv.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 889]: LIBSIP:recv msg len 221.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 062959000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 062959  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AQ: BR1  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BL: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract CQ: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PB: 1978-10-10  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PC: Patrons  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract PI: Filtered  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AF: OK  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AO: gapines  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 470]: LIBSIP:parse field string done, 14 fields saving  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 625]: LIBSIP:parse respond msg successfully.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1408]: respond field CQ: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1402]: respond field BL: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1414]: LIBSIP:patron is valid.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1440]: LIBSIP:select user group based on library SIP policy.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1299]: rule 1: "PB" "occurs-after" "1978-01-01"  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1310]: respond field PB: 1978-10-10  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1255]: LIBSIP:compare date: 1978-10-10 1978-01-01  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 1366]: match.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 509]: LIBSIP:parse msg(expected type:64): 64 Y 00120101116 062959000000000000000000000000AA11111|AEyun feng feng|BHUSD|BV0.00|BDafasdfadsf asdfasd asd USA 89890|BEyfeng@aerohive.com|AQBR1|BLY|CQY|PB1978-10-10|PCPatrons|PIFiltered|AFOK|AOgapines|^M  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 599]: status: Y  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 600]: language:001  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 601]: date:20101116 062959  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 608]: hold=0, overdue=0, charged=0, fine=0, recall=0, unavailable=0  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 423]: LIBSIP:find \r\n, mark it as string ending.  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AA: 11111  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract AE: yun feng feng  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BH: USD  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BV: 0.00  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BD: afasdfadsf asdfasd asd USA 89890  2010-11-16 11:29:54 debug [libsip\_dbg, ah\_libsip\_client\_api.c, 460]: LIBSIP:extract BE: yfeng@aerohive.com  Exec-Program output:  query patron "11111" information successfully.  hold items 0000  overdue items 0000  charged items 0000  fine items 0000  recall items 0000  unavailable items 0000  institution id(AO) gapines  screen message(AF) OK  customer defined(PI) Filtered  customer defined(PC) Patrons  customer defined(PB) 1978-10-10  valid patron password(CQ) Y  valid patron(BL) Y  permanent location(AQ) BR1  e-mail address(BE) yfeng@aerohive.com  home address(BD) afasdfadsf asdfasd asd USA 89890  fee amount(BV) 0.00  currency type(BH) USD  personal name(AE) yun feng feng  patron identifier(AA) 11111  Mapping User Group:"yfeng1"  Attribute: 2000  Vlan: 0  Timeout(s): 1800 | | |
| Comment |  | | |

## Stress Test Case

## Duration Test Case

## Performance Test Case

## Scalability Test Case

## Compatibility Test Case

## CLI Management (Automation Status: Yes/No)

<Just list all cli that this feature has one by one>

< memory leak case for these CLI.Normally, the leak is happened when we do some commands repeatedly.  Like create an object, then delete that object, it should release all the memory it allocated. But this is not true for all the cases. If you create/delete an object several times(but how many times?) and the memory just going down and never recovered, it maybe a memory leak(again, how can we decide it is really a memory leak?).>

## GUI Management-HiveManager

<List HM test case or test log>

## GUI Management-HiveUI

<List HiveUI test case or test log>