Aerohive Networks Inc.

Smart POE test case

Revision History

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| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 0.1 | 09/01/2010 | Tiezhu zhu | Initial version |
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<Descript this feature in high level>

# Test point or strategy

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## CLI check: show version, what’s the current version for LED PIC and POE PIC

## From POE controller side:

2.5.1 SmartPOE auto mode, check if AP can get more power from other port under critical and saturation mode.

2.5.2 SmartPOE manual mode, check if AP will share power with other equipment under same level

## Check if POE controller actual output power equal AP’s show power

## With POE controller power decrease, check if AP will turn off some module for save power

2.7.1 Reduce POE controller power check if AP will reduce TX chain

AP340, FCC, RF power: wifi0, fixed 19dbm; wifi1, fixed 18dbm

One eth power supply: PSE<12mw, AP reboot

PSE max power=13mw, AP will reboot when enter listen state

PSE max power=14mw, AP will reboot when client try to connect to AP

PSE max power=15mw, AP can work with 2\*3

2.7.2 Reduce POE controller power, check if AP will turn off eth

2.7.3 Reduce POE controller power, check if AP will turn off wifi band

Set switch max power to 11w/12w, check if wifi will be turn off.

(12w will not reboot for 826 standby mode for 13dbm limited power)

## if two eth connect, check the max power’s relation with separate eth power

## If power trap send to Hive Manager

## Different power will trigger vary configure.

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## When two eth enable, check if AP performance can reach 300M

## Check if 802.3af full configure, AP’s performance and configure.

## Check if AP will reboot when PSE full configured.

## During two eth power up and run throughput by wifi, check if throughput will break when one eth been plugged out.

## Check if LLDP protocol will negotiate POE power between AP and switch

# Topology

<List all topology used in your case if you have>

# TestCase

## CLI check: show system power

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-1 | | |
| Priority | Accept | Automation Flag | Yes |
| Topology to use |  | | |
| Description | CLI check: show system power | | |
| Pre-condition |  | | |
| Test procedure | 1. Only Connect eth0 to POE switch, execute CLI to check system power 2. Only Connect eth1 to POE switch, execute CLI to check system power 3. Only connect power supply to AP jack , execute CLI to check system power 4. Connect eth0&eth1 to POE switch, execute CLI to check system power 5. Connect eth0&eth1 to POE switch and power supply to AP jack, check system power | | |
| Expect result |  | | |

## CLI check: sho system power status

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-2 | | |
| Priority | Accept | Automation Flag | Yes |
| Topology to use |  | | |
| Description | CLI Check: show system power status | | |
| Pre-condition |  | | |
| Test procedure | 1.Only Connect eth0 to POE switch, execute CLI to check system power status  2.Only Connect eth1 to POE switch, execute CLI to check system power status  3.Only connect power supply to AP jack , execute CLI to check system power status  4.Connect eth0&eth1 to POE switch, execute CLI to check system power status  5.Connect eth0&eth1 to POE switch and power supply to AP jack, check system power status | | |
| Expect result |  | | |

## CLI check: no/system smart-poe enable

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | DFS-3 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description |  | | |
| Pre-condition |  | | |
| Test procedure | 1. Execute CLI “system smart-poe enable” and check 2. Execute CLI “no system smart-poe enable” and check | | |
| Remark | Can not check its state. No CLI check. | | |

* 1. **CLI check: sho version**

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-4 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description |  | | |
| Pre-condition |  | | |
| Test procedure | 1. *Execute CLI “sho version” and check LED and PIC version* | | |
| Expect result | AH-06c140#sho version  Aerohive Networks Inc.  Copyright (C) 2006-2010  Version: HiveOS 3.5r1 alpha build0064  Build time: Thu Aug 26 04:23:18 UTC 2010  Build cookie: 082510200909  Platform: HiveAP340\_n  LED PIC ver: v1.0.2  PoE PIC ver: v1.0.0  TPM ver: v1.2.17.3  Uptime: 0 weeks, 0 days, 0 hours, 3 minutes, 50 seconds | | |

**4.5 SmartPOE auto mode, check if AP can get more power from other port under critical and saturation mode.**

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-5 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | SmartPOE auto mode, check if AP can get more power from other port under critical and saturation mode. | | |
| Pre-condition | H3C have 24 pcs port, so delayed to next verion. | | |
| Test procedure |  | | |
| Expect result |  | | |

**4.6 SmartPOE manual mode, check if AP will share power with other equipment under same level**

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-6 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | SmartPOE manual mode, check if AP will share power with other equipment under same level | | |
| Pre-condition | H3C have 24 pcs port, so delayed to next verion. | | |
| Test procedure |  | | |
| Expect result |  | | |

## Check if POE controller actual output power equal AP’s show power

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-7 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if POE controller actual output power equal AP’s show power | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure POE switch port 14/15 POE enable 2. Set POE switch port 14/15 max power 8w/9w. 3. Enable AP POE and separately connect eth0/eth1 to switch port 14/15 4. “show system power””show system power status” check AP detect power 5. On switch, “display poe interface power” show current switch supply power 6. Compare AP detect power with switch setting max power and switch current power | | |
| Test result | AH-06c140#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 15994 17084  <H3C>display poe interface power  PORT INDEX POWER (mW) PORT INDEX POWER (mW)  Ethernet1/0/1 0 Ethernet1/0/2 0  Ethernet1/0/3 0 Ethernet1/0/4 0  Ethernet1/0/5 0 Ethernet1/0/6 0  Ethernet1/0/7 0 Ethernet1/0/8 0  Ethernet1/0/9 0 Ethernet1/0/10 0  Ethernet1/0/11 0 Ethernet1/0/12 0  Ethernet1/0/13 0 Ethernet1/0/14 6900  Ethernet1/0/15 6700 Ethernet1/0/16 0  Ethernet1/0/17 0 Ethernet1/0/18 0  Ethernet1/0/19 0 Ethernet1/0/20 0  Ethernet1/0/21 0 Ethernet1/0/22 0  Ethernet1/0/23 0 Ethernet1/0/24 0  Ethernet1/0/14 max power 8000 Ethernet1/0/15 max power 9000 | | |

## Reduce POE controller power check if AP will reduce TX chain

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-8 | | |
| Priority | Accept | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Reduce POE controller power check if AP will reduce TX chain | | |
| Pre-condition | AP340, FCC, RF power: wifi0, fixed 19dbm; wifi1, fixed 18dbm | | |
| Test procedure | 1. Configure POE switch port 14/15 POE enable 2. Set POE switch port 14/15 max power 8w/9w. 3. Enable AP POE and separately connect eth0/eth1 to switch port 14/15 4. “show system power””show system power status” check AP detect power 5. On switch, “display poe interface power” show current switch supply power 6. Compare AP detect power with switch setting max power and switch current power | | |
| Test result | One eth power supply:  PSE<12000mw, AP reboot  PSE max power=13000mw, AP will reboot when enter listen state  PSE max power=14000mw, AP will reboot when client try to connect to AP  PSE max power=15000mw, AP can work with 2\*3  When run jperf, AP sometime will reboot . Maybe maxpower is distributed by 8w and 9w, so if one eth ramp up, it will power off  AH-06c140#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 16358 15986  AH-06c140#sho sy  AH-06c140#sho system pow  AH-06c140#sho system power st  AH-06c140#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 3 3 -----  wifi1 Up 3 3 -----  eth0 Up ----- ----- 1Gbps  eth1 Up ----- ----- 1Gbps  <H3C>display poe interface power  PORT INDEX POWER (mW) PORT INDEX POWER (mW)  Ethernet1/0/1 0 Ethernet1/0/2 0  Ethernet1/0/3 0 Ethernet1/0/4 0  Ethernet1/0/5 0 Ethernet1/0/6 0  Ethernet1/0/7 0 Ethernet1/0/8 0  Ethernet1/0/9 0 Ethernet1/0/10 0  Ethernet1/0/11 0 Ethernet1/0/12 0  Ethernet1/0/13 0 Ethernet1/0/14 6700  Ethernet1/0/15 6400 Ethernet1/0/16 0  Ethernet1/0/17 0 Ethernet1/0/18 0  Ethernet1/0/19 0 Ethernet1/0/20 0  Ethernet1/0/21 0 Ethernet1/0/22 0  Ethernet1/0/23 0 Ethernet1/0/24 0  Ethernet1/0/14 max power 8000  Ethernet1/0/15 max power 9000 | | |

## Reduce POE controller power, check if AP will turn off eth

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-9 | | |
| Priority | Accept | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Reduce POE controller power, check if AP will turn off eth | | |
| Pre-condition |  | | |
| Test procedure | 1. Configure POE switch port 1 POE enable 2. Set POE switch port 1 max power 15.4w. 3. Enable AP POE and connect eth1 to switch port 1;connect AP eth0 to non-POE port 4. “show system power””show system power status” check AP detect power ans status. Eth0 should be down state. 5. On switch, “display poe interface power” show current switch supply power | | |
| Test result | AH-06c140#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 0 16400  AH-06c140#sho system power s  AH-06c140#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 2 3 -----  wifi1 Up 2 3 -----  eth0 Down ----- ----- -----  eth1 Up ----- ----- 1Gbps | | |

## Reduce POE controller power, check if AP will turn off wifi band

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-10 | | |
| Priority | Accept | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Reduce POE controller power, check if AP will turn off wifi band | | |
| Pre-condition |  | | |
| Test procedure | Configure POE switch port 1 POE enableSet POE switch port 1 max power 12w.Enable AP POE and connect eth1 to switch port 1;connect AP eth0 to non-POE port“show system power””show system power status” check AP detect power ans status.On switch, “display poe interface power” show current switch supply power | | |
| Test result | Set switch max power to 11w/12w, check if wifi will be turn off.  (12w will not reboot for 826 standby mode for 13dbm limited power)  AP will reboot:  Welcome to Aerohive Wireless Product  AH-06c140 login: admin  Password:  Aerohive Networks Inc.  Copyright (C) 2006-2010  AH-06c140#  AH-06c140#sho sy  AH-06c140#sho system pow  AH-06c140#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 0 16063  AH-06c140#sho system power st  AH-06c140#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 2 3 -----  wifi1 Up 2 3 -----  eth0 Down ----- ----- -----  eth1 Up ----- ----- 1Gbps  AH-06c140#shWelcome to Aerohive HiveAP  Hit the space bar to stop the autoboot process: 1 | | |

## If two eth connect, check the max power’s relation with separate eth power

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-11 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | if two eth connect, check the max power’s relation with separate eth power | | |
| Pre-condition |  | | |
| Test procedure | Configure POE switch port 14/15 POE enableSet POE switch port 14/15 max power 8w/9w.Enable AP POE and separately connect eth0/eth1 to switch port 14/15“show system power””show system power status” check AP detect powerOn switch, “display poe interface power” show current switch supply powerCompare AP detect power with switch setting max power and switch current power | | |
| Test result | [H3C]display poe interface power  PORT INDEX POWER (mW) PORT INDEX POWER (mW)  Ethernet1/0/1 0 Ethernet1/0/2 0  Ethernet1/0/3 0 Ethernet1/0/4 0  Ethernet1/0/5 0 Ethernet1/0/6 0  Ethernet1/0/7 0 Ethernet1/0/8 0  Ethernet1/0/9 0 Ethernet1/0/10 0  Ethernet1/0/11 0 Ethernet1/0/12 0  Ethernet1/0/13 0 Ethernet1/0/14 6800  Ethernet1/0/15 6500 Ethernet1/0/16 0  Ethernet1/0/17 0 Ethernet1/0/18 0  Ethernet1/0/19 0 Ethernet1/0/20 0  Ethernet1/0/21 0 Ethernet1/0/22 0  Ethernet1/0/23 0 Ethernet1/0/24 0  Ethernet1/0/14 max power 8000  Ethernet1/0/15 max power 9000  H3C]display poe interface power  PORT INDEX POWER (mW) PORT INDEX POWER (mW)  Ethernet1/0/1 0 Ethernet1/0/2 0  Ethernet1/0/3 0 Ethernet1/0/4 0  Ethernet1/0/5 0 Ethernet1/0/6 0  Ethernet1/0/7 0 Ethernet1/0/8 0  Ethernet1/0/9 0 Ethernet1/0/10 0  Ethernet1/0/11 0 Ethernet1/0/12 0  Ethernet1/0/13 0 Ethernet1/0/14 0  Ethernet1/0/15 0 Ethernet1/0/16 0  Ethernet1/0/17 0 Ethernet1/0/18 0  Ethernet1/0/19 0 Ethernet1/0/20 0  Ethernet1/0/21 0 Ethernet1/0/22 0  Ethernet1/0/23 7000 Ethernet1/0/24 6500  Ethernet1/0/23 max power 15400  Ethernet1/0/24 max power 15400 | | |

## If power trap send to Hive Manager

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-12 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | If power trap send to Hive Manager | | |
| Pre-condition |  | | |
| Test procedure | Have not find power trap in Hive manager | | |
| Test result |  | | |

## Under auto mode, check AP’s configure if available power equal 20w

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-13 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under auto mode, check AP’s configure if available power equal 20w | | |
| Pre-condition |  | | |
| Test procedure | Configure POE switch port 14/15 POE enableSet POE switch port 14/15 max power 15.4WEnable AP POE and separately connect eth0/eth1 to switch port 14/15“show system power””show system power status” check AP detect power status | | |
| Test result | AH-06c140#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 15994 17084  AH-06c140#  AH-06c140#sho sy  AH-06c140#sho system pow  AH-06c140#sho system power sta  AH-06c140#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 3 3 -----  wifi1 Up 3 3 -----  eth0 Up ----- ----- 1Gbps  eth1 Up ----- ----- 1Gbps | | |

## Under auto mode, check AP’s configure if available power equal 18-20w

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-14 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under auto mode, check AP’s configure if available power equal 18-20w | | |
| Pre-condition |  | | |
| Test procedure | For AP power detect issue, we can not make this case come true | | |
| Test result |  | | |

## Under auto mode, check AP’s configure if available power equal 15-18W

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-15 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under auto mode, check AP’s configure if available power equal 15-18W | | |
| Pre-condition |  | | |
| Test procedure | Configure POE switch port 14 POE enableSet POE switch port 14max power 15.4WEnable AP POE and separately connect eth0 to switch port 14“show system power””show system power status” check AP detect power status | | |
| Test result | AH-169200#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 2 3 -----  wifi1 Up 2 3 -----  eth0 Up ----- ----- 1Gbps  eth1 Down ----- ----- -----  AH-169200#sho system power  2010-08-31 03:05:20 debug last message repeated 4 times  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 16012 0 | | |

## Under auto mode, check AP’s configure if available power equal 13.6-15W

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-16 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under auto mode, check AP’s configure if available power equal 15-18W | | |
| Pre-condition |  | | |
| Test procedure | Configure POE switch port 14 POE enableSet POE switch port 14max power 15.4WEnable AP POE and separately connect eth0 to switch port 14“show system power””show system power status” check AP detect power status | | |
| Test result | AH-169200#sho system power  PoE max power: smartPoE  System power status:  Ext power adaptor PoE0(mW) PoE1(mW)  -----------------------------------------  Disconnect 0 14922  AH-169200#sho sy  AH-169200#sho system pow  AH-169200#sho system power st  AH-169200#sho system power status  System Power Status:  interface Status TxChain RxChain Speed  ---------------------------------------------  wifi0 Up 2 3 -----  wifi1 Up 2 3 -----  eth0 Down ----- ----- -----  eth1 Up ----- ----- 100Mbps | | |

## Under auto mode, check AP’s configure if available power equal 0-12w

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-17 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under auto mode, check AP’s configure if available power equal 0-12w | | |
| Pre-condition |  | | |
| Test procedure | For AP power detect issue, we can not make this case come true | | |
| Test result |  | | |

## Under manual mode, check AP’s configure if available power equal 15-16.5w

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-18 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under manual mode, check AP’s configure if available power equal 15-16.5w | | |
| Pre-condition |  | | |
| Test procedure |  | | |

## Under manual mode, check AP’s configure if available power equal 16.5-18w

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-19 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Under manual mode, check AP’s configure if available power equal 16.5-18w | | |
| Pre-condition |  | | |
| Test procedure |  | | |

## Check if available power is at the power boundary, how it works?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-20 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if available power is at the power boundary, how it works? | | |
| Pre-condition |  | | |
| Test procedure | For AP power detect issue, we can not make this case come true | | |
| Test result |  | | |

## Check if GPIO pin status corresponding with available power?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-21 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if GPIO pin status corresponding with available power? | | |
| Pre-condition |  | | |
| Test procedure | No debug switch for GPIO | | |
| Test result |  | | |

## Check if GPIO pin status update time between 1-2 seconds?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-22 | | |
| Priority | Low | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if GPIO pin status update time between 1-2 seconds? | | |
| Pre-condition |  | | |
| Test procedure | No debug switch for GPIO | | |
| Test result |  | | |

## During sanity check, if different POE PIC version will give update image response.

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-23 | | |
| Priority | Low | Automation Flag | Yes |
| Topology to use |  | | |
| Description | During sanity check, if different POE PIC version will give update image response. | | |
| Pre-condition |  | | |
| Test procedure | No debug switch for sanity check | | |
| Test result |  | | |

## During sanity check, if different LED PIC version will give update image response.

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-24 | | |
| Priority | Low | Automation Flag | Yes |
| Topology to use |  | | |
| Description | During sanity check, if different LED PIC version will give update image response | | |
| Pre-condition |  | | |
| Test procedure | No debug switch for sanity check | | |
| Test result |  | | |

## Eth status will lead to hardware failure?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-25 | | |
| Priority | Low | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Eth status will lead to hardware failure? | | |
| Pre-condition |  | | |
| Test procedure | No debug switch for sanity check | | |
| Test result |  | | |

## Check if HiveOS serial port can get data from smart POE controller?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-26 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if HiveOS serial port can get data from smart POE controller? | | |
| Pre-condition |  | | |
| Test procedure | No found method to enter POE controller | | |
| Test result |  | | |

## Check different hardware platform’s power spec?

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-27 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check different hardware platform’s power spec | | |
| Pre-condition |  | | |
| Test procedure | Now only 300 serials support SmartPOE | | |
| Test result |  | | |

## When two eth enable, check if AP performance can reach 300M

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-28 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use | Now we only test 130M state for time shot issue. | | |
| Description | When two eth enable, check if AP performance can reach 300M | | |
| Pre-condition |  | | |
| Test procedure | 1. Confgure AP HT20 and connect eth0 to POE switch 2. Show system power to check if it’s power equal or bigger than 15.4w 3. Connect one client to AP and run jperf as server 4. Set AP as iperf client and run iperf   **Sho ssid XXX station mac XXXX, check it’s data rate.** | | |
| Test result | AH-06c140#sho ssid c140 st  AH-06c140#sho ssid c140 station mac 001d:d968:acf4  Pow=Power in dBm; txrate=transmission rate;  txpkts=transmitted data packets; txbytes=transmitted data bytes;  rxrate=reception rate; rxpkts=received data packets; rxbytes=received data bytes;  Pow txrate txpkts txbytes rxrate rxpkts rxbytes  -24 130M 103394 146.70M 26M 51963 3.37M  -21 117M 105040 149.04M 19.5M 52791 3.42M  -21 117M 106168 150.63M 6.5M 53360 3.46M  -21 78M 107473 152.49M 19.5M 54031 3.51M  -21 117M 109053 154.74M 19.5M 54802 3.55M  -21 104M 110563 156.88M 19.5M 55558 3.60M  -21 104M 111594 158.35M 13M 56075 3.63M  -20 130M 113247 160.70M 19.5M 56905 3.69M  -24 78M 114741 162.83M 26M 57654 3.73M  -23 104M 116074 164.72M 26M 58319 3.78M  -23 130M 117628 166.94M 19.5M 59097 3.83M  -24 104M 119061 168.98M 19.5M 59820 3.87M  -24 104M 120401 170.88M 19.5M 60498 3.91M  -27 130M 122227 173.46M 13M 61415 3.97M  -23 104M 123386 175.11M 19.5M 61993 4.01M  -24 117M 124690 176.97M 13M 62643 4.05M  -24 130M 125554 178.19M 19.5M 63060 4.08M  -24 130M 126634 179.73M 13M 63631 4.11M  -29 104M 127594 181.10M 26M 64080 4.14M  -26 130M 128777 182.77M 13M 64672 4.18M  -24 78M 129756 184.17M 13M 65163 4.21M  -28 78M 130882 185.77M 13M 65727 4.24M  -33 104M 132127 187.54M 13M 66348 4.28M  -23 78M 133447 189.42M 19.5M 67008 4.32M  -25 104M 134317 190.66M 13M 67445 4.35M  -24 78M 135759 192.71M 19.5M 68167 4.40M  -34 104M 136762 194.14M 13M 68668 4.43M  -24 117M 137641 195.39M 13M 69108 4.46M  -24 52M 139047 197.39M 19.5M 69814 4.50M  -21 104M 140871 199.99M 52M 70729 4.56M  -23 78M 142321 202.05M 52M 71456 4.60M  -23 52M 144565 205.24M 19.5M 72586 4.68M  -23 39M 145903 207.14M 26M 73254 4.72M  -27 1M 146087 207.40M 19.5M 73388 4.73M  -20 117M 146860 208.51M 19.5M 73747 4.75M  -27 130M 148076 210.24M 39M 74356 4.79M  -27 78M 149372 212.08M 13M 75004 4.83M  -26 52M 150891 214.24M 52M 75765 4.88M  -26 104M 152665 216.77M 52M 76654 4.93M  -22 130M 154146 218.87M 58.5M 77396 4.98M  -20 117M 155208 220.39M 58.5M 77929 5.01M  -20 78M 156259 221.88M 39M 78455 5.04M  -20 78M 158069 224.46M 19.5M 79363 5.10M  -20 52M 159733 226.82M 26M 80196 5.15M  -20 39M 160729 228.23M 19.5M 80693 5.19M  -21 130M 161689 229.60M 1M 81175 5.22M  -20 78M 162875 231.28M 19.5M 81770 5.25M  -24 130M 164398 233.45M 13M 82532 5.30M  -20 130M 166006 235.74M 26M 83339 5.35M  -20 104M 167631 238.05M 39M 84151 5.40M  -20 130M 169026 240.03M 26M 84901 5.45M  -24 104M 169800 241.14M 13M 85240 5.47M  -21 104M 171178 243.10M 19.5M 85928 5.52M  -21 52M 172551 245.05M 26M 86619 5.56M  -21 52M 173909 246.98M 58.5M 87301 5.60M  -20 104M 175302 248.96M 52M 87998 5.65M  -25 78M 177043 251.44M 13M 88871 5.70M  -20 26M 178261 253.17M 13M 89481 5.74M  -22 104M 179287 254.63M 13M 89995 5.77M  -29 130M 179940 255.56M 6.5M 90324 5.79M  -22 78M 180999 257.06M 19.5M 90852 5.83M  -24 78M 182142 258.69M 13M 91426 5.86M  -24 39M 182941 259.83M 6.5M 91827 5.89M  -23 117M 184006 261.34M 19.5M 92375 5.92M  -23 130M 185391 263.32M 13M 93051 5.96M | | |

## Check if 802.3af full configure, AP’s performance and configure

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-29 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if 802.3af full configure, AP’s performance and configure | | |
| Pre-condition |  | | |
| Test procedure | S3600 have 24 ports, no more AP for this test. Put it in next POE version test | | |
| Test result |  | | |

## Check if AP will reboot when PSE full configured

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-30 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if AP will reboot when PSE full configured | | |
| Pre-condition |  | | |
| Test procedure | S3600 have 24 ports, no more AP for this test. Put it in next POE version test | | |
| Test result |  | | |

## During two eth power up and run throughput by wifi, check if throughput will break when one eth been plugged out

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-31 | | |
| Priority | High | Automation Flag | Yes |
| Topology to use |  | | |
| Description | During two eth power up and run throughput by wifi, check if throughput will break when one eth been plugged out | | |
| Pre-condition |  | | |
| Test procedure | Connect AP two eth port to POE port with max power 15.4w  1. Connect one client to AP and run iperf as server end 2. Run iperf in AP as client end 3. “show ssid XXX station mac XXXX” check it’s rate 4. Plug out one of eth line and check it’s throughput | | |
| Test result | -26 104M 7787 11.09M 130M 3993 258.46K  -25 19.5M 9671 13.77M 130M 4944 319.80K  -26 104M 10870 15.47M 130M 5545 358.57K  -26 104M 13062 18.59M 130M 6631 428.57K  -26 52M 14015 19.95M 130M 7110 459.44K  -26 39M 15555 22.13M 130M 7882 509.20K  -26 39M 16925 24.08M 130M 8575 553.86K  -64 78M 18338 26.09M 117M 9283 599.50K  -26 39M 19785 28.15M 117M 10013 646.58K  -27 39M 20587 29.30M 117M 10421 672.90K  -27 78M 21971 31.26M 130M 11119 717.89K  -26 117M 22611 32.18M 130M 11447 739.05K  -26 104M 23715 33.75M 130M 12000 774.70K  -25 130M 25562 36.37M 130M 12927 834.44K  -25 117M 27178 38.67M 130M 13722 885.78K  -25 130M 29262 41.63M 130M 14766 953.07K  -25 117M 30844 43.88M 130M 15556 1003.99K  -25 104M 31527 44.86M 117M 15898 1.00M  -27 39M 32410 46.12M 104M 16336 1.03M  -26 11M 32928 46.86M 104M 16584 1.05M  -22 78M 33408 47.54M 39M 16874 1.06M  -25 78M 34201 48.67M 13M 17226 1.09M  -22 78M 35451 50.45M 19.5M 17860 1.13M  -23 104M 36255 51.60M 19.5M 18263 1.16M  -22 130M 37241 53.00M 19.5M 18759 1.19M  -22 78M 37987 54.07M 26M 19139 1.22M  -22 52M 38709 55.09M 19.5M 19502 1.24M  -23 52M 39697 56.50M 19.5M 20022 1.27M  -22 52M 40340 57.41M 19.5M 20332 1.30M  -28 104M 42437 60.38M 13M 21385 1.36M  -23 78M 43673 62.14M 19.5M 22020 1.40M  -22 19.5M 44480 63.29M 13M 22414 1.43M  -22 78M 44956 63.97M 19.5M 22650 1.44M  -22 78M 45734 65.08M 19.5M 23043 1.47M  -22 52M 47612 67.74M 19.5M 23985 1.53M  -26 104M 48945 69.64M 52M 24659 1.57M  -25 104M 50563 71.94M 52M 25464 1.62M  -25 117M 51575 73.38M 13M 25973 1.65M  -25 52M 53373 75.94M 26M 26873 1.71M  -22 39M 54393 77.39M 19.5M 27384 1.74M  -22 78M 56605 80.53M 52M 28491 1.81M  -22 104M 58124 82.69M 52M 29253 1.86M  -24 78M 59429 84.55M 52M 29908 1.90M  -26 13M 59942 85.28M 13M 30190 1.92M  -21 13M 60806 86.51M 19.5M 30597 1.94M  -21 26M 61527 87.53M 13M 30964 1.97M  -22 39M 61856 88.00M 6.5M 31131 1.98M  -20 117M 62392 88.76M 19.5M 31450 2.00M  -19 52M 63796 90.76M 19.5M 32104 2.04M  -20 52M 65345 92.96M 52M 32883 2.09M  -21 26M 66416 94.48M 39M 33432 2.12M  -20 78M 67813 96.47M 26M 34124 2.17M  -24 78M 69136 98.35M 52M 34781 2.21M  -23 78M 70966 100.95M 6.5M 35696 2.26M  -24 104M 71681 101.97M 13M 36063 2.29M  -24 104M 73420 104.44M 26M 36928 2.34M  request SSID station information failed because of station leave.  request SSID station information failed because of station leave.  request SSID station information failed because of station leave.  request SSID station information failed because of station leave.  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -34 0M 1 36 1M 1 82  -26 0M 1 36 1M 2 160  -26 0M 1 36 1M 2 160  -26 0M 1 36 1M 2 160  -26 0M 1 36 1M 2 160  -26 0M 1 36 130M 3 226  -26 0M 1 36 130M 3 226  -26 0M 1 36 130M 3 226  -24 78M 2 90 130M 4 292  -27 104M 3 144 130M 5 354  -27 104M 3 144 130M 5 354  -26 117M 5 3.09K 130M 7 474  -26 117M 10 9.36K 130M 12 804  -26 130M 15 16.73K 130M 17 1.11K  -26 130M 20 24.09K 130M 22 1.43K  -26 117M 24 29.98K 130M 26 1.69K  -27 130M 29 37.34K 130M 31 2.01K  -26 117M 363 527.54K 130M 183 11.81K  -26 78M 1108 1.57M 130M 552 35.59K  -25 13M 1611 2.29M 130M 804 51.83K  -22 26M 2628 3.73M 104M 1314 84.70K  -21 19.5M 3108 4.42M 39M 1555 100.25K  -22 104M 3831 5.45M 39M 1920 123.57K  -22 5.5M 3833 5.45M 39M 1920 123.57K  -21 2M 3855 5.48M 26M 1970 126.80K  -20 13M 4154 5.91M 13M 2100 135.18K  -18 19.5M 4456 6.34M 19.5M 2252 144.97K  -18 52M 5152 7.33M 13M 2605 167.72K  -18 78M 6230 8.86M 26M 3144 202.48K  -19 78M 7063 10.05M 19.5M 3566 229.68K  -18 11M 8018 11.41M 26M 4022 259.07K  -18 78M 8566 12.19M 19.5M 4298 276.87K  -19 117M 9924 14.12M 26M 4981 320.89K  -18 39M 10799 15.36M 26M 5420 349.18K  -24 13M 11704 16.65M 26M 5875 378.51K  -25 39M 12498 17.78M 26M 6274 404.24K  -32 39M 12850 18.28M 13M 6448 415.45K  -21 19.5M 13196 18.77M 6.5M 6613 426.10K  -23 39M 13697 19.48M 19.5M 6855 441.70K | | |

## Check if LLDP protocol will negotiate POE power between AP and switch

|  |  |  |  |
| --- | --- | --- | --- |
| Case ID | SmartPOE-32 | | |
| Priority | Middle | Automation Flag | Yes |
| Topology to use |  | | |
| Description | Check if LLDP protocol will negotiate POE power between AP and switch | | |
| Pre-condition |  | | |
| Test procedure | Test it in next version | | |
| Test result |  | | |

# CLI (Automation Status: Yes/No)

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

# Customer Issue or Typical Bug