|  |  |  |
| --- | --- | --- |
| Description: F9EF71AB-60B8-4E3D-BF21-53890216C81A | **Global Edge Software Ltd.**  Global Village IT SEZ  Mylasandra Village  RVCE Post off Mysore Road  Bangalore – 560 094 | |
| **Document Name** | **GES\_Vivint\_IOP\_TestAutomation\_ReleaseNotes** | |
| **Preparation Time** | **10 hours** | |
| **Review Time** | **1 hours** | |
| **Rework Time** | **4 hours** | |
| **Version** | **1.0** | |
| **Distribution List** | **GES Test and Automation Team**  **Vivint Test and Automation Team** | |
| **Prepared By** | **Praveena SS** |  |
| **Reviewed By** | **Vijay Durai** |  |
| **Approved By** | **Sudhanand Galagali** |  |

**sudo iw dev wlp3s0 interface add adhoc.wlan0 type ibss**

**sudo iwconfig adhoc.wlan0 mode monitor**

**sudo iwconfig wlp3s0 mode managed**

**sudo ifconfig adhoc.wlan0 up**

**sudo tcpdump -c 10 -i adhoc.wlan0**

**RECORD OF CHANGES**

**Document Change Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Date** | **Brief Description of change** | **Authored By** | **Reviewed By** | **DCIN No/CRF /PCR No. if Applicable** |
| 1.0 | July 15, 2018 | Initial draft | Praveena SS | Vijay Durai |  |
| 1.1 | July 17, 2018 | Incorporated review comments | Ritesh P | Vijay Durai |  |
| 1.2 | July 27, 2018 | Added latest test automation framework information | Ritesh P | Vijay Durai |  |
| 1.3 | August 20, 2018 | Added details about v2.0.3 release | Ritesh P | Vijay Durai |  |
| 1.4 | August 30, 2018 | Added details about v2.0.4 release | Ritesh P | Vijay Durai |  |
| 1.5 | September 11, 2018 | Added details about v3.0 release | Ritesh P | Vijay Durai |  |
| 1.6 | January,  30, 2019 | Added details about v4.0c release | Ritesh P | Praveena SS |  |
| 1.7 | February,  12, 2019 | Added details about v4.1 release | Ritesh P | Praveena SS |  |

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# System Overview

## Description

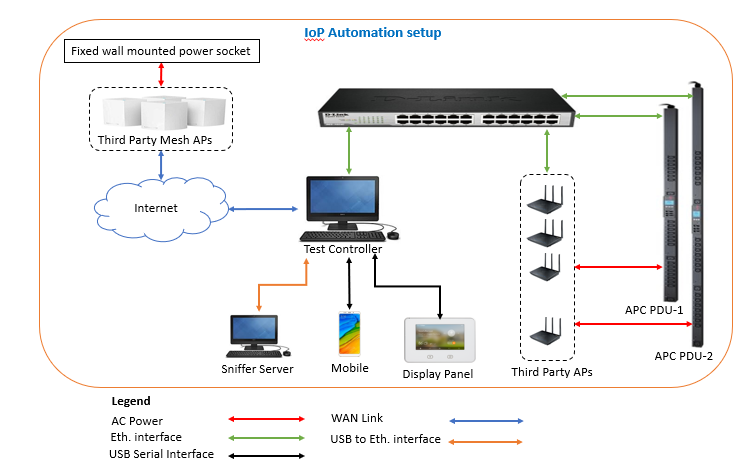
The purpose of this document is to provide all the information regarding GES developed test automation framework to validate Vivint’s WallSly/SkyControl display devices.

This document serves as both user guide and release notes.

As a user guide, this document briefs about automation test bed, system requirements, setup configuration and execution.

As a release notes, this document details about test automation framework releases including release version, supported features, limitations and bug status

## IOP Automation Test Setup



## Automation Source Code Directory structure

`-- VivintSmartHome |-- Config

| `-- Ap\_info.xlsx

|-- Doc

| |-- GES\_Vivint\_IoP\_AutomationFrameworkDesign.doc

| |-- GES\_Vivint\_IoP\_TestAutomation\_ReleaseNotes.docx

| `-- Vivint\_50APs\_Details.xlsx

|-- Lib

| |-- APLib

| | |-- ACTIONTEC\_GT784WN.py

| | |-- AMPLIFI\_AFIR.py

| | |-- ApControl.py

| | |-- APPLE\_EXTREME.py

| | |-- APPLE\_MINI.py

| | |-- ARRIS\_SBG6580.py

| | |-- ARRIS\_SBG6782.py

| | |-- ASUS\_LYRAAC2200.py

| | |-- ASUS\_RTAC52U.py

| | |-- ASUS\_RTAC68U.py

| | |-- ASUS\_RTAC88U.py

| | |-- ASUS\_RTACRH13.py

| | |-- ASUS\_RTACRH13V3.py

| | |-- ASUS\_TMAC1900.py

| | |-- ATT\_5268AC.py

| | |-- ATT\_NVG589.py

| | |-- DLINK\_COVER2600R.py

| | |-- DLINK\_DIR600L.py

| | |-- DLINK\_DIR605L.py

| | |-- EERO\_B010001.py

| | |-- ENGENIUS\_EMR3000.py

| | |-- GOOGLE\_AC1900.py

| | |-- HITRON\_CGNM2250.py

| | |-- KISSLINK\_NB7532.py

| | |-- LINKSYS\_E1200.py

| | |-- LINKSYS\_E8350.py

| | |-- LINKSYS\_EA6100.py

| | |-- LINKSYS\_EA6350.py

| | |-- LINKSYS\_EA6500.py

| | |-- LINKSYS\_EA7300.py

| | |-- LINKSYS\_EA8500.py

| | |-- LINKSYS\_VELOP.py

| | |-- LINKSYS\_WRT1900AC.py

| | |-- NETGEAR\_ORBI.py

| | |-- NETGEAR\_R6230PV1.py

| | |-- NETGEAR\_R6700V2.py

| | |-- NETGEAR\_R6900V2.py

| | |-- NETGEAR\_R7000PV1.py

| | |-- NETGEAR\_R7800.py

| | |-- NETGEAR\_R8000.py

| | |-- NETGEAR\_WNDR3300.py

| | |-- NETGEAR\_WNDR4300V2.py

| | |-- NETGEAR\_WNDR4500.py

| | |-- TELUS\_T3200M.py

| | |-- TENDA\_AC1200.py

| | |-- TENDA\_NOVA.py

| | |-- TPLINK\_ARCHERC7.py

| | |-- TPLINK\_ARCHERC9.py

| | |-- TPLINK\_ARCHERCR700.py

| | |-- TPLINK\_DECOM5.py

| | |-- TPLINK\_TLWR940N.py

| | |-- UBEE\_DDW36C.py

| | `-- ZYXEL\_VSG1432B101.py

| |-- STALib

| | `-- Jar

| | `-- RedmiNote5.jar

| |-- SysLib

| | |-- ApcPduControl.py

| | |-- ExcelConfig.py

| | |-- ExcelParser.py

| | |-- ReadXmlReport.py

| | |-- Scan.py

| | |-- SendEmail.py

| | |-- SetupPreliminaryCheck.py

| | |-- SysUtils.py

| | `-- XlsReportManager.py

| `-- VDev

| |-- Constants.py

| `-- Vpanel.py

|-- Log

| `-- 31-Jan-10\_33\_23\_Logs.log

|-- Output

|-- Report

| `-- IOP\_Automation\_Report-31-Jan-11\_41\_01.xls

|-- TestSuite

`-- IOP

`-- TestSuitControl.py

## System Requirements

### Hardware Requirements

1. Controller PC

The device which controls other devices in the setup such as DUT, mobile, APC PDU, sniffer server, third party APs and from which automation scripts are executed.

* x86/64Bit Machine with more than 8 GB RAM
* One ethernet interface, which connects to internet (ISP)
* 2 numbers USB-to-Eth adaptors, one is used to connect the test controller switch another is used to connect the sniffer server as back to back connection.

1. Third party APs/Home APs.

There are 50 third party APs are used for IOP automation with Vivint display panel (DUT). Refer attached document for supported list of APs.

1. Sniffer Server

* Ubuntu 16 LTS
* Inbuilt 11ac Wi-Fi card

**Note**: Used HP 240 G6 laptop (intel core i3) as a sniffer machine in automation setup.

1. LAN Cables

RJ45 cable are used establish the connectivity between controller switch to other devices. Refer section 1.2

1. APC Rack PDU

APC Rack 24 port PDU provide reliable rack power distribution via a single input with multiple output receptacles. Third party APs are connected to it and controlled via controller PC. This APC rack PDU should be connected to controller switch. Refer section #1.2

APC-PDU-1

* Model - AP8953
* Default IP- 192.168.1.60
* Default user name - apc
* Default password – apc

APC-PDU-2

* Model - AP8959
* Default IP- 192.168.1.61
* Default user name - apc
* Default password – apc

1. Controller Switch

Ethernet switch is used to establish local network among all devices are controlled during automation execution.

* D-Link 24-Port 10/100 Unmanaged Desktop Switch: DES-1024D

1. Mobile/Cellphone

Android mobile is used to control mesh APs via APP, in turn this mobile is connected to controller PC via USB serial cable and been controlled.

* Redmi Note 5 with Android Nougat 7.1.2
* Mesh APs mobile APPs must be installed in this mobile and initial configuration in respective mesh AP’s mobile APP should be completed. Refer section 1.4.1 B attached document, which gives website link to APP installation and configuration.
* Enable USB debugging procedure in Redmi Note 5
  + Go to main ***Settings***.
  + Scroll down to find ***About phone*** option and tap on it.
  + Locate ***Miui Version*** option and tap seven times on it.
  + Go back to main Settings.
  + Run ***Additional Settings*** and tap ***Developer options*** to enable.
  + Scroll down to find ***USB Debugging*** option and enable it.
  + Scroll down to find ***USB Debugging (Security Settings)*** option and enable it.

1. Device Under Test (DUT)

Vivint display units are used as a DUT, which is connected to controller PC via USB serial cable and been controlled.

* + WallSly as a DUT with 8 GB pen drive connected to it.
  + SkyControl as a DUT with 8 GB pen drive connected to it.

1. 8 GB Pen drive (memory stick)

8 GB Pen drive should be connected to DUT (WallSly/SkyControl) before automation begins. This is used to store the DUT logs during automation.

### Software Requirements

### Test controller PC

Install/Configure the following software in controller PC

1. Ubuntu 14.4 LTS should be installed.
2. Firefox web browser

Firefox web browser is used to control the APs via AP’s web interfaces. Gecko is a web browser engine developed by Mozilla and is the interface between selenium and Firefox browser.

|  |  |
| --- | --- |
| Firefox web browser  (>= v54.0) | 1. Go to url - <https://ftp.mozilla.org/pub/firefox/releases/58.0/linux-x86_64/en-US/> 2. Download - firefox-58.0.tar.bz2 3. Change directory # cd firefox-58.0 4. Untar the package, # tar -xvf firefox-58.0.tar.bz2 5. Remove old firefox dir, # sudo rm -r /opt/firefox 6. Move new firefox folder, # sudo mv firefox /opt/firefox58 7. Remove old firefox bin file, # sudo rm /usr/bin/firefox 8. Create soft link, # sudo ln -s /opt/firefox58/firefox /usr/bin/firefox |
| Geckodriver  (64bit arch) | 1. Go to url - https://github.com/mozilla/geckodriver/releases 2. Download geckodriver-v0.18.0-linux64.tar.gz 3. Untar the package, # tar -xvf geckodriver-v0.18.0-linux64.tar.gz 4. Move gecodriver to bin, # sudo mv geckodriver /usr/bin |

1. Python Packages

Python is a programming language. As per below table, other supported and dependent python packages are needs to be installed for IOP automation.

|  |  |
| --- | --- |
| **Packages** | **Commands** |
| Python 2.7 | sudo apt update  sudo apt dist-upgrade  sudo apt install python2.7 |
| Pip upgrade | sudo apt-get install python-pip |
| Selenium (>= v3.6.0) | sudo pip install -U selenium |

1. Android Debug Bridge (ADB)

In controller PC execute below command to install adb software package.

# sudo apt install android-tools-adb

### Sniffer Server

1. Wireshark package

Install wireshark sniffer package as follows to capture and analysis Wi-Fi frames.

|  |  |
| --- | --- |
| Sniffer packages | 1. Install wireshark package  * Download wireshark package v1.10.6 from this link –   <https://launchpad.net/ubuntu/+archive/primary/+sourcefiles/wireshark/1.10.6-1/wireshark_1.10.6.orig.tar.bz2>   * Extract the package and install.   # tar -xaf wireshark-1.10.6.tar.bz2  # cd wireshark-1.10.6/  # ./configure && make   * Cross check the wireshark package version   # wireshark -v  # tshark -v   1. sudo apt-get install libpcap-dev   sudo ln -s /usr/lib/x86\_64-linux-gnu/libpcap.so.1.\* /usr/lib/libpcap.so.1   1. sudo apt-get install libnl-3-dev 2. sudo apt-get install libxml2-dev |

# Configuration and execution Procedure

## Test bed preparation

Prepare the test bed as per Section 1.2.

## Test bed configuration

Configure the test bed as follows,

1. Allocate IP address (E.g.: subnet 192.168.1.x) to Controller PC ethernet interface, (E.g.: eth0)
2. Allocate IP address (E.g.: subnet 192.168.1.x) to APC
3. Configure the LAN settings in third-party AP as follows,
   * IP address: 192.168.1.xx (different for different APs)
   * Subnet mask: 255.255.255.0

**Note**:

1. This configuration should be taken care for all the 50 APs
2. Any subnet can be used.
3. LAN setting is not required for Mesh APs.

## Preliminary Checks

1. Make sure that Ping to APC PDU, Sniffer Server, Third-party APs from the controller PC should success.
2. Mesh APs should be connected to external internet.
3. Mesh APs APPs should be installed in mobile
4. Make sure that wireless sniffer card should be detected in controller PC. Use following command to check the driver detection.

# lspci

1. Check for mobile detection, and command output should be as follows,

# adb devices

List of devices attached

<device\_id> device

**Note:**

Don’t perform any manual operations in controller PC once automation starts. For example, Browsing, log analysis, document editing, minimizing execution terminal etc.… this leads some issues in selenium operations. Due this framework may fail, or test case may fail.

## Download Test Automation Framework

Download test automation framework for respective release version from repository. Refer section #3 for the release path.

## Framework Configuration

### Ap\_info.xlsx configuration

Find the configuration file under Ges\_Viv\_STA-IOP\_vX.X\VivintSmartHome\Config path.

Embedded sample configuration file,

### Sniffer Configuration

1. Open new terminal in controller PC
2. Create monitor interface as follows,
   * sudo iw dev **xxxx** interface add moni type monitor
   * sudo ifconfig moni up
   * sudo ifconfig **xxxx** down

**Note**:

xxxx – Wifi interface name (Eg.: wlan0)

1. Edit the xml configuration file ***Automation/Sniffer/Config\_Sniffer.xml*** as follows,

<interface>**xxxx**</interface>

Configure the ethernet interface name through which controller PC is connected to Control Switch. Refer section #1.2.

**Note**:

xxxx – Ethernet interface name (Eg.: eth0)

<ip>**x.x.x.x**</ip>

Configure IPv4 addresses which is taken from the controller PC’s ethernet

interface which is mentioned above under <interface> tag.

<SnifferLog**>/tmp/logs**</SnifferLog>

Provide the log path details in controller PC, in which you would like to store.

**Note**: Don’t edit other tags except above mentioned.

1. Start sniffer endpoint

* Add executable permission to /Sniffer folder.

# cd Ges\_Viv\_TestAutomation\_vX.X/Sniffer

# chmod +x \*

* Execute shell script Automation/Sniffer/Start.sh as follows,

# sudo ./Start.sh

### Push .jar file to android mobile

Open new terminal in controller PC and execute the following adb command.

# adb push Ges\_Viv\_TestAutomation\_vX.X/VivintSmartHome/Lib/STALib/Jar/RedmiNote5.jar /data/local/tmp

**Note**:

RedmiNote5.jar file works with only RedmiNote5 android mobile

## Test Scripts

Test scripts are found at Ges\_Viv\_TestAutomation\_vX.X\VivintSmartHome\TestSuite\IOP\TestSuitControl.py

## Execution

Go to Ges\_Viv\_STA-IOP\_vX.X\VivintSmartHome\TestSuite\IOP path and execute the test control python file.

# sudo python TestSuitControl.py

## PASS/FAIL Criteria

Post execution, a report will get generated at Ges\_Viv\_STA-IOP\_vX.X\VivintSmartHome\Report path. Look for ‘***Verdict’*** column in ***DetailedReport*** page.

# Releases

Overview on automation framework versions and naming conventions.

Syntax:

***V<Major\_ Number>.<Minor\_ Number>.<Maintenance\_Number>c***

**Major\_Number:** Changes when release includes new requirements w.r.t features/functionalities implemented.

**Minor\_Number:** Changes when release includes bug fixes with enhancements are implemented.

**Maintenance\_Number:** Changes when release includes bug fixes only.

**c**: determines its customer release

Example-1:

Customer releases,

Ges\_Viv\_STA-IOP\_v1.0c

Ges\_Viv\_ STA-IOP\_v2.0c

Ges\_Viv\_ STA-IOP\_v2.8c

….

Example-2:

Local releases,

Ges\_Viv\_ STA-IOP \_v1.0.1

Ges\_Viv\_ STA-IOP \_v1.1.5

Ges\_Viv\_ STA-IOP \_v1.2.0

…

## Ges\_Viv\_STA-IOP\_v4.1

### Repository Path

For GlobalEdge:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/AP-STA\_IOP/Versioned\_Code/Ges\_Viv\_STA-IOP\_v4.1

For Vivint: NA

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n, 11ac and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Integrated sniffer module to validate Wi-Fi frames.
9. Added android mobile UI automation w.r.t Mesh AP configuration
10. Added check point for checking for SSID (32-bit length) and PSK (64-bit length) length for each AP.
11. Failed TCs sniffer logs are moved to /Sniffer/logs/Failure\_Logs
12. Failed TCs DUT logs are moved to media/sda1/log/FailureLogs
13. Generates excel based report
14. Sends E-mail notification after the completion of execution.
15. Implemented sniffer server, that runs in another laptop as a sniffer sever. Running as a deamon process.
16. Sniffer captur support is given to mesh APs
17. Iperf support with TCP and UDP.

### Unit Test Logs

For sanity, 30 APs are used. Automation execution took 15+ hours.

Find embedded logs,

Logs can be found at Ges\_Viv\_STA-IOP\_vX.X\VivintSmartHome\Log path.

### Limitations/Known Issues

NA

### Major Fixes

1. AUTO-5505 [STA\_IOP\_AUTO][Skycontrol] Framework has been freezes in between test case Execution  
2. AUTO-5720 [STA\_IOP\_AUTO][Skycontrol] AP configuration is getting failed  
3. AUTO-5725 [STA\_IOP\_AUTO][Skycontrol] Iperf traffic is failing after connection  
4. AUTO-5733 [STA\_IOP\_AUTO][Skycontrol] Beacon packet check failed as there is no beacon frames present in sniffer capture  
5. AUTO-5744 [STA\_IOP\_AUTO] Discrepancy in the test results report  
6. AUTO-5745 [STA\_IOP\_AUTO]Framework enhancement to incorporate improved debugging explanation in case of test failures  
7. AUTO-5747 [STA\_IOP\_AUTO]Ping Test is Passed during initial check for all the AP's availability failing when particular AP is in test

### JIRA Status

## Ges\_Viv\_STA-IOP\_v4.0c

### Repository Path

For GlobalEdge:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/AP-STA\_IOP/Versioned\_Code/Ges\_Viv\_STA-IOP\_v4.0c

For Vivint:

Download the code from bit bucket path -

<https://source.vivint.com/projects/EM/repos/ges-test-automations/pull-requests/11/overview>

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n, 11ac and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Integrated sniffer module to validate Wi-Fi frames.
9. Added android mobile UI automation w.r.t Mesh AP configuration
10. Added check point for checking for SSID (32-bit length) and PSK (64-bit length) length for each AP.
11. Failed TCs sniffer logs are moved to /Sniffer/logs/Failure\_Logs
12. Failed TCs DUT logs are moved to media/sda1/log/FailureLogs
13. Generates excel based report
14. Sends E-mail notification after the completion of execution.
15. Implemented sniffer server, that runs in another laptop as a sniffer sever. Running as a deamon process.
16. Sniffer captur support is given to mesh APs
17. Iperf support with TCP and UDP.

### Unit Test Logs

For sanity, 3 APs (ASUSRTAC88U, NETGEARR6900V2 and LINKSYSE1200), and 2 Mesh APs (ASUSLYRAAC2200 and ENGENIUSEMR3000) are used. Automation execution took 2+ hours.

Find embedded logs,

Logs can be found at Ges\_Viv\_STA-IOP\_vX.X\VivintSmartHome\Log path.

### Limitations/Known Issues

NA

### Major Fixes

NA

### JIRA Status

AUTO-5463 [AP-STA\_IOP\_AUTO][TASK] Remove the sleep mechanism In the code.  
AUTO-5461 [AP-STA\_IOP\_AUTO][TASK] /specify mesh AP in Xls sheet  
AUTO-5460 [AP-STA\_IOP\_AUTO][TASK] Encryption alg selection for NETGEAR\_WNDR4500  
AUTO-5462 [AP-STA\_IOP\_AUTO][TASK] Packet capture issue in below AP's  
AUTO-5517 [AP-STA\_IOP\_AUTO][TASK] Calculate connection time  
AUTO-5548 [AP-STA\_IOP\_AUTO][TASK] Generate the xl report at any stage  
AUTO-5550 [AP-STA\_IOP\_AUTO][TASK] LINKSYSWRT1900AC Ap configuration  
AUTO-5549 [AP-STA\_IOP\_AUTO][BUG] Packet check failed in mesh ap  
AUTO-5551 [AP-STA\_IOP\_AUTO][TASK] Need to change in ping functionalty  
AUTO-5552 [AP-STA\_IOP\_AUTO][TASK] Automate NETGEAR\_R8000 AP  
AUTO-5554 [AP-STA\_IOP\_AUTO][TASK] Fill cell with red coloure it it failed  
AUTO-5555 [AP-STA\_IOP\_AUTO][TASK] Start iperf in mesh AP also  
AUTO-5547 [AP-STA\_IOP\_AUTO][TASK] Add mode for per AP in Xls sheet  
AUTO-5519 [AP-STA\_IOP\_AUTO][TASK] Add failure reason column in xls report sheet  
AUTO-5545 [AP-STA\_IOP\_AUTO][TASK]Integrate new exell configuration into the IOP automation. [xml a to excel config]  
AUTO-5546 [AP-STA\_IOP\_AUTO][TASK]Integrate new exell output report into the IOP automation  
AUTO-5544 [AP-STA\_IOP\_AUTO][TASK] Aps firmware validation before automation starts  
AUTO-5518 [AP-STA\_IOP\_AUTO][TASK] Use "send\_net\_route\_command" instead of network login  
AUTO-5556 [AP-STA\_IOP\_AUTO][TASK] Add bandwidth column in Xls report sheet  
AUTO-5553 [AP-STA\_IOP\_AUTO][TASK] Read iperf data from server side  
AUTO-5516 [AP-STA\_IOP\_AUTO][TASK] Convert all robot file in to Python files  
AUTO-5518 [AP-STA\_IOP\_AUTO][TASK] Use "send\_net\_route\_command" instead of network login

## Ges\_Viv\_TestAutomation\_v3.0

### Repository Path

For GlobalEdge:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v3.0

For Vivint:

Download the code from bit bucket path -

https://source.vivint.com/projects/EM/repos/ges-test-automations/Ges\_Viv\_TestAutomation\_v3.0

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n, 11ac and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.
9. Added android mobile UI automation w.r.t Mesh AP configuration
10. Added check point for checking for SSID (32-bit length) and PSK (64-bit length) length for each AP.
11. Failed TCs sniffer logs are moved to /Sniffer/logs/Failure\_Logs
12. Failed TCs DUT logs are moved to media/sda1/log/FailureLogs

### Unit Test Logs

For sanity, 3 APs (ASUSRTAC88U, NETGEARR6900V2 and LINKSYSE1200), and 2 Mesh APs (ASUSLYRAAC2200 and ENGENIUSEMR3000) are used. Automation execution took 2+ hours.

Find embedded logs,

Logs can be found at Ges\_Viv\_TestAutomation\_vX.X\VivintSmartHome\Log path.

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 24 APs which are connected to 24 port APC PDU and 8 Mesh APs which are connected to direct AC power supply. Total 32 third party APs are used in automation setup.
2. NETGEAR-VELOP: Automatically changes LAN IP so we are not able to configure it via automation. Bugzilla Bug ID: 2942
3. No sniffer capture w.r.t Mesh AP scenarios, due to dynamic nature of channel configuration in the mesh AP.

### Major Fixes

NA

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | FIXED | DUPLICATE | Total | | Vivintsmarthome | 41 | 1 | 42 | | Total | 41 | 1 | 42 | |

## Ges\_Viv\_TestAutomation\_v2.0.4

### Repository Path

For GES:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v2.0.4

For Vivint:

NA

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.
9. Added android mobile UI automation w.r.t Mesh AP configuration
10. Added check point for checking for SSID (32-bit length) and PSK (64-bit length) length for each AP.
11. Failed TCs sniffer logs are moved to /Sniffer/logs/Failure\_Logs
12. Failed TCs DUT logs are moved to media/sda1/log/FailureLogs

### Unit Test Logs

For sanity, one ASUSRTAC88U, and one Mesh AP (ASUSLYRAAC2200) are used. Automation execution took ~50 minutes.

Find embedded logs,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
2. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
3. 11ac wireless mode is not supported.
4. NETGEAR-VELOP: Automatically changes LAN IP so we are not able to configure it via automation. Bugzilla Bug ID: 2942

### Major Fixes

1. TELUST3200M AP was not taking SSID with underscore characters
2. Iperf run issue in skycontrol.
3. WPA issue in 2.4G/ HITRONCGNM2250

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | FIXED | DUPLICATE | Total | | Vivintsmarthome | 41 | 1 | 42 | | Total | 41 | 1 | 42 | |

## Ges\_Viv\_TestAutomation\_v2.0.3

### Repository Path

For GES:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v2.0.3

For Vivint:

NA

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.
9. Added android mobile UI automation w.r.t Mesh AP configuration
10. Added check point for checking for SSID (32 bit length) and PSK (64 bit length) length for each AP.
11. Failed TCs sniffer logs are moved to /Sniffer/logs/Failure\_Logs
12. Failed TCs DUT logs are moved to media/sda1/log/FailureLogs

### Unit Test Logs

For sanity, two ASUSRTAC88U, DLINKCOVER2600R, and one Mesh AP (ENGENIUSEMR3000) are used. Automation execution took more than 1-hour duration.

Find embedded logs,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
2. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
3. 11ac wireless mode is not supported.
4. NETGEAR-VELOP: Automatically changes LAN IP so we are not able to configure it via automation. Bugzilla Bug ID: 2942

### Major Fixes

1. Configuration issue with ATT5268AC is fixed.
2. Added justification comments for all the sleep instructions in the code.
3. Handled web browser cookies and cache before execution start.

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | FIXED | DUPLICATE | Total | | Vivintsmarthome | 38 | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=DUPLICATE) | 39 | | Total | [38](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=FIXED&product=Vivintsmarthome) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=DUPLICATE&product=Vivintsmarthome) | **39** | |

## Ges\_Viv\_TestAutomation\_v2.0.2

### Repository Path

For GES:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v2.0.2

For Vivint:

NA

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.
9. Added android mobile UI automation w.r.t Mesh AP configuration

### Unit Test Logs

For sanity, one AP(LINKSYSEA6500) and one Mesh AP (AMPLIFIAFIR) are used. Automation execution took ~1 hour duration.

Find embedded logs,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
2. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
3. 11ac wireless mode is not supported.

### Major Fixes

1. Removed limitation – manually network module login.
2. Ping validation for duplicate packets.
3. If DUT will loss more than PACKET\_LOSS\_THRESHOLD value then, Automation logs will give failure. (PACKET\_LOSS\_THRESHOLD is 10% of total packet count)
4. Mobile connectivity with mesh AP
5. Automation execution will be stopped due to connection failure between DUT and Mesh AP, during that time Mesh AP was revert in default ssid/password by automation only

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | FIXED | DUPLICATE | Total | | Vivintsmarthome | [37](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=FIXED) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=DUPLICATE) | 38 | | Total | [37](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=FIXED&product=Vivintsmarthome) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=DUPLICATE&product=Vivintsmarthome) | **38** | |

## Ges\_Viv\_TestAutomation\_v2.0.1

### Repository Path

For GES:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v2.0.1

For Vivint:

NA

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.
9. Added android mobile UI automation w.r.t Mesh AP configuration

### Unit Test Logs

For sanity, one AP(ASUSRTAC68U) and one Mesh AP (TENDANOVA) are used. Automation execution took ~1-hour duration.

Find embedded logs,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
2. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
3. 11ac wireless mode is not supported.

### Major Fixes

1. Added support for collecting sniffer logs at \Sniffer\logs for all the scenarios.
2. Fixed DUT log in issue

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | FIXED | DUPLICATE | Total | | Vivintsmarthome | [31](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=FIXED) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=DUPLICATE) | [32](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | | Total | [31](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=FIXED&product=Vivintsmarthome) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&resolution=DUPLICATE&product=Vivintsmarthome) | [**32**](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&component=iop&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&=&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | |

## Ges\_Viv\_TestAutomation\_v2.0

### Repository Path

For GES:

Download the code from svn path - http://172.16.2.19/svn/Vivint/GES\_Vivint\_Automation/Automation\_tags/ Ges\_Viv\_TestAutomation\_v2.0

For Vivint:

Download the code from bit bucket path -

https://source.vivint.com/projects/EM/repos/ges-test-automations/ Ges\_Viv\_TestAutomation\_v2.0

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports all the channels supported by third party APs specific to the bands.
5. Works with 11n and b/g/n-mixed modes
6. Provided support for Mesh APs
7. Added preliminary check for connectivity between controller PC to all APs.
8. Implemented sniffer server, that runs in controller PC.

### Unit Test Logs

For sanity, one AP(ASUSRTAC68U) and one Mesh AP (TENDANOVA) are used. Automation execution took ~1-hour duration.

Find embedded logs,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.

# sudo minicom -D /dev/ttyUSB0 115200

# username: root, password: ap3x!

1. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
2. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
3. 11ac wireless mode is not supported.

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | **FIXED** | **DUPLICATE** | **Total** | | **Vivintsmarthome** | [12](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=DUPLICATE) | [13](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | | **Total** | [12](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&resolution=FIXED&product=Vivintsmarthome) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&resolution=DUPLICATE&product=Vivintsmarthome) | [13](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | |

## Ges\_Viv\_TestAutomation\_v1.0

### SVN Path

Download the updated code from svn path http://172.16.2.19/svn/Vivint/Automation/

### Supported Features

1. Supported both WallSly and SkyControl as DUTs
2. Supports Firefox web browser automation
3. Automated 50 third party APs. Refer section 1.4.1 B for supported AP list.
4. Automation supports following combinations including all channels specific to the band.
5. Works with 11n and 1b/g/n-mixed modes

### Unit Test Logs

1. Automation with 19 third party APs at a time, takes ~8 hours.
2. Automation with 25 third party APs at a time, takes ~10 hours.

Find the logs below,

### Limitations/Known Issues

1. Before automation starts, login to DUT host module via minicom and close the terminal.
2. # sudo minicom -D /dev/ttyUSB0 115200
3. # username: root, password: ap3x!
4. Automation can be run with maximum of 21 APs at a time, due to APC PDU ports limitation. Not executed the automaton with 50 ports APC PDU. But framework is capable to handle 1 to 50 APs which are connected to 50 ports of APC PDU.
5. Not validated 50 APs without APC PDU (all APs are in ON state). But framework is capable to handle this. Did unit test with 24 APs without APC PDU.
6. 11ac wireless mode is not supported.
7. Mesh APs are not supported in automation.

### Bug Status

|  |  |
| --- | --- |
|  | **Resolution** |
| **Product** | |  |  |  |  | | --- | --- | --- | --- | |  | **FIXED** | **DUPLICATE** | **Total** | | **Vivintsmarthome** | [4](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=DUPLICATE) | [5](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | | **Total** | [4](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&resolution=FIXED&product=Vivintsmarthome) | [1](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&resolution=DUPLICATE&product=Vivintsmarthome) | [5](http://bugzilla.globaledgesoft.com/buglist.cgi?action=wrap&bug_file_loc=&bug_file_loc_type=allwordssubstr&bug_id=&bug_id_type=anyexact&bug_status=UNCONFIRMED&bug_status=CONFIRMED&bug_status=Not Implemented&bug_status=Known issue%2Flimitation&bug_status=INVALID&bug_status=Reviewable&bug_status=Review-Actions-Outstanding&bug_status=Ready-for-Rereview&bug_status=Review-Complete&bug_status=Root-Cause&bug_status=Reopen&bug_status=CL-Pending&bug_status=Test-Team-Pending&bug_status=Bug-After-Cutoff&bug_status=IN_PROGRESS&bug_status=RESOLVED&bug_status=VERIFIED&chfieldfrom=&chfieldto=Now&chfieldvalue=&deadlinefrom=&deadlineto=&email1=&email2=&email3=&emailassigned_to1=1&emailassigned_to2=1&emailcc2=1&emaillongdesc3=1&emailreporter2=1&emailtype1=substring&emailtype2=substring&emailtype3=substring&field0-0-0=noop&keywords=&keywords_type=allwords&longdesc=&longdesc_type=allwordssubstr&short_desc=&short_desc_type=allwordssubstr&status_whiteboard=&status_whiteboard_type=allwordssubstr&type0-0-0=noop&value0-0-0=&component=iop&product=Vivintsmarthome&resolution=FIXED&resolution=INVALID&resolution=WONTFIX&resolution=DUPLICATE&resolution=WORKSFORME&resolution=Cronus Limitation) | |

# ACRONYMS AND ABBREVIATIONS

AP Access Points/Wifi Routers

APC American Power Conversion

DUT Device Under Test

GES Global Edge Software Ltd.,

IOP Interoperability Test

MAC Medium Access Control

PDU Power Distribution Unit

# Contact

Contact below Engineers for automation related queries.

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Engineers Name** | **Mail Ids** |
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